# Data Report on Vertical Profiles of Sediment Chlorophyll Concentrations across the Tidal Flats of Roberts Bank, British Columbia

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# DATA REPORT ON VERTICAL PROFILES OF SEDIMENT CHLOROPHYLL CONCENTRATIONS ACROSS THE TIDAL FLATS OF ROBERTS BANK, BRITISH COLUMBIA

by

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## ABSTRACT

Sutherland, T.F., Morrison, S., Petersen, S.A., Levings, C.D.. and Hill, P. 2005. Data report on vertical profiles of sediment chlorophyll concentrations across the tidal flats of Roberts Bank, British Columbia. Can. Data. Rep. Fish. Aquatic Sci. 1175: xiii + 67p.

Vertical profiles of sediment chlorophyll concentrations were measured at six sampling transects across the tidal flats of Roberts Bank, British Columbia, between June, 2003, and February, 2004. The transects were positioned perpendicular to the shoreline with 3 transects located north of the Deltaport causeway and 3 transects located within the intercauseway region (between the Deltaport and Ferry Terminal causeways). These data were collected as part of a larger multidisciplinary project addressing the sensitivity of the Roberts Bank tidal flats to potential changes in wave energy and sediment supply due to climate change.



## RÉSUMÉ

Sutherland, T.F., Morrison, S., Petersen, S.A., Levings, C.D.. and Hill, P. 2005. Data report on vertical profiles of sediment chlorophyll concentrations across the tidal flats of Roberts Bank, British Columbia. Can. Data. Rep. Fish. Aquatic Sci. 1175: xiii + 67p.

Des profils verticaux des concentrations de chlorophylle dans les sédiments ont été établis pour six transects d'échantillonnage sur les battures du banc Roberts (C.-B.) entre juin 2003 et février 2004. Les transects étaient perpendiculaires au rivage et ont été effectués au nord de la jetée du port de Delta (3) et dans le secteur entre les jetées du port de Delta et de la gare maritime (3). Ces données ont été recueillies dans le cadre d'un projet pluridisciplinaire portant sur la sensibilité des battures du banc Roberts aux changements potentiels sur le plan de l'énergie des vagues et de l'apport de sédiments dus au changement climatique.

# INTRODUCTION

The tidal flats of Roberts Bank form part of the Fraser River Deltaic system located in southwestern British Columbia (Figure 1) which serves as an important habitat for migratory birds (Butler et al. 1987; Iverson et al. 1996) and juvenile salmon (Levings, 1985; 2004). The projected increase in global sea level rise put forward by the International Panel on Climate Change (IPCC) may potentially result in a significant reduction of the Roberts Bank tidal flat, which currently covers an area of 113 $km^2$ and presently lies within a few metres of mean sea level. In addition, global climate models have predicted an increase in storm intensity over the next century, which may result in the erosion of the lower tidal flats and steepening of the overall slope of the tidal flats. Climate-induced changes to this low-level environment will potentially influence both community and conservation activities, since the Roberts Bank tidal flats are 1) bordered by the Delta municipality and the Tsawwassen First Nation Reserve, 2) the site of the Deltaport and Tsawwassen ferry terminals, and 3) contain important habitat for a variety of birds and fish.

A multidisciplinary project funded by the Canadian Climate Change Impacts and Adaptation Program (CCIAP) and lead by Phil Hill of Natural Resources Canada was designed to address the present morphodynamic state of the Roberts Bank tidal flats and determine the sensitivity of the tidal flat profile to seasonal variations in wave energy and sediment supply. Since previous studies have shown that mucilage-laden diatom biofilms influence sediment erodibility (Sutherland et al. 1998a; Paterson, 1989), sediment chlorophyll content was measured across the tidal flats during 5 field trips over a period of one year. Sediment chlorophyll serves as a quantitative index for diatom biofilms (Sutherland et al. 1998b) which in turn provides a food source for both shorebirds (Elner et al. 2004) and harpacticoid copepods (Decho and Moriarty, 1990). Harpacticoid copepods serve as a significant prey item for juvenile Pacific salmon (Godin, 1981) and have been shown to be removed by shorebirds during predation experiments on Roberts Bank (Sutherland et al. 2000). This data report presents a record of depth profiles of sediment chlorophyll concentrations on Roberts Bank tidal flats between June, 2003 and February, 2004. These data records can be used to assess future changes to biofilm distributions across the tidal flats due to climate changes or anthropogenic developments associated with Roberts Bank.

## METHODS AND MATERIALS

### FIELD SAMPLING

Sampling stations were located along 5 transects (A through F) spanning the high to low intertidal region of Roberts Bank, British Columbia (Figures 1 and 2). Transects A, B and C were located northwest of the Delta port causeway, while transects D, E and F were located between the Delta port causeway and the Tsawwassen ferry terminal causeway. Sediment chlorophyll samples were collected from exposed sediments during 5 sampling trips that took place at low tide in June, 2003, August, 2003, October, 2003, December, 2003, and February, 2004. Due to varying levels of tidal flat exposure throughout the year, sediment chlorophyll samples were not always collected at every station during each field trip. Sediment chlorophyll samples were collected using modified 60-cc syringe cores with the tips cut off. Three replicate syringe cores were collected at each station and stored on ice in a cooler in an upright position. The cooler was transported back to the laboratory and the samples were stored in a freezer at -14°C until chlorophyll analysis was carried out.

### LABORATORY ANALYSIS

Each sediment core was removed from the freezer, placed in an upright position, and allowed to thaw prior to chlorophyll analysis. A syringe plunger was used to extrude the sediment core at 1-mm depth intervals to a depth of 5 mm. Each 1-mm depth interval was sliced from the core using a razor blade and placed in a labelled, pre-weighed scintillation vial. The core was then sliced at 5-mm depth intervals to a depth of 20 mm followed by 10-mm depth intervals to a depth of 40 mm. Ten mL of 90% acetone was added to each scintillation vial containing a sediment slice after the weight of sediment and vial was recorded. The samples were then placed in a dark refrigerator for 24 hours to allow for the extraction of chlorophyll. The supernatant was then decanted into a cuvette and the fluorescence was measured using a Turner Designs model 10-AU fluorometer. Fluorescence was then measured again following the acidification of the supernatant with the addition of three drops of 10% hydrochloric acid. In the event that a sample exceeded the range of the fluorometer the sample was diluted with 90% acetone in another cuvette until the fluorescence of the sample did not exceed the maximum reading of the fluorometer.

## ACKNOWLEDGEMENTS

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## REFERENCES


Butler, R.W., Kaiser, G.W., and Smith, G.E.J. 1987. Migration chronology, length of stay, sex ratio, and weight of western sandpipers (*Calidris mauri*) on the south coast of British Columbia. Journal of Field Ornithology, 58: 103 – 111.

Decho, A.W., and Moriarty, D.J.W. 1990. Bacterial exopolymer utilization by a harpacticoid copepod: A methodology and results. Limnology and Oceanography, 35: 1039 – 1049.

Elner, R., Beninger, P.G., Jackson, D.L., and Potter, T.M. 2004. Evidence of a new feeding mode in western sandpiper (*Calidris mauri*) and dunlin (*Calidris alpina*) based on bill and tongue morphology and ultrastructure. Marine Biology, 146: 1223 – 1234.

Godin, J.-G. J. 1981. Daily patterns of feeding behaviour, daily rations, and diets of juvenile pink salmon in two marine bays in British Columbia. Canadian Journal of Fisheries and Aquatic Sciences, 38: 10-15.

Iverson, G.C., Warnock, S., Butler, R.W., Bishop, M.A., and Warnock. N. 1996. Spring migration of the western sandpiper (*Calidris mauri*) along the Pacific Coast: a telemetry study. Condor, 98: 10-21.

Levings, C.D. 1985. Juvenile salmonid use of habitats altered by a coal port in the Fraser River estuary, British Columbia. Marine Pollution Bulletin, 17: 248 – 254.

Levings, C.D. 2004. Fish ecology: knowledge and its application to habitat management. (Eds) Groulx, B., J. Luternauer, and D. Bilderback. In: Fraser Delta: Issues in an urban estuary. Geological Survey of Canada Bulletin, 546: 213 - 236.

Paterson, D.M. 1989. Short-term changes in erodibility of intertidal cohesive sediments related to the migratory behaviour of epipelic diatioms. Limnology and Oceanography, 34: 223 – 234.

Sutherland, T.F., Amos, C.L., and Grant, J. 1998a. The effect of buoyant biofils on the erodibility of sublittoral sediments of a temperate microtidal estuary. Limnology and Oceanography, 43 (2): 225-235.

Sutherland, T.F., Grant, J., and Amos, C.L. 1998b. The effect of carbohydrate production by the diatom *Nitzschia curvilineata* on the erodibility of sediment. Limnology and Oceanography, 43 (1): 65 – 72.

Sutherland, T.F., Shepherd, P.C.F., and Elner, R.W. 2000. Predation on meiofaunal and macrofaunal invertebrates by western sandpipers (*Calidris mauri*): evidence for dual foraging modes. Marine Biology, 137: 983 – 993.

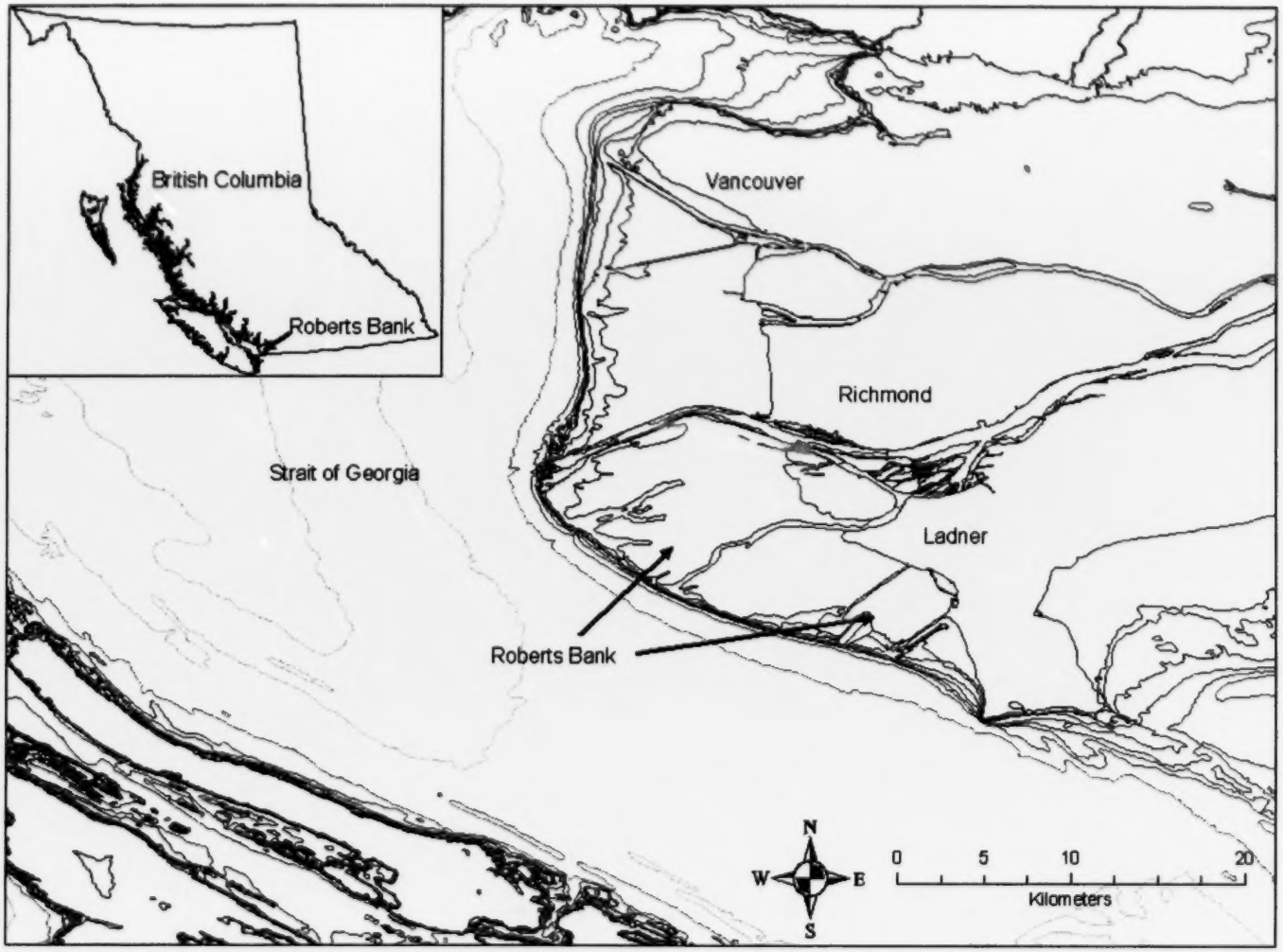


Figure 1. Location of Roberts Bank, British Columbia.

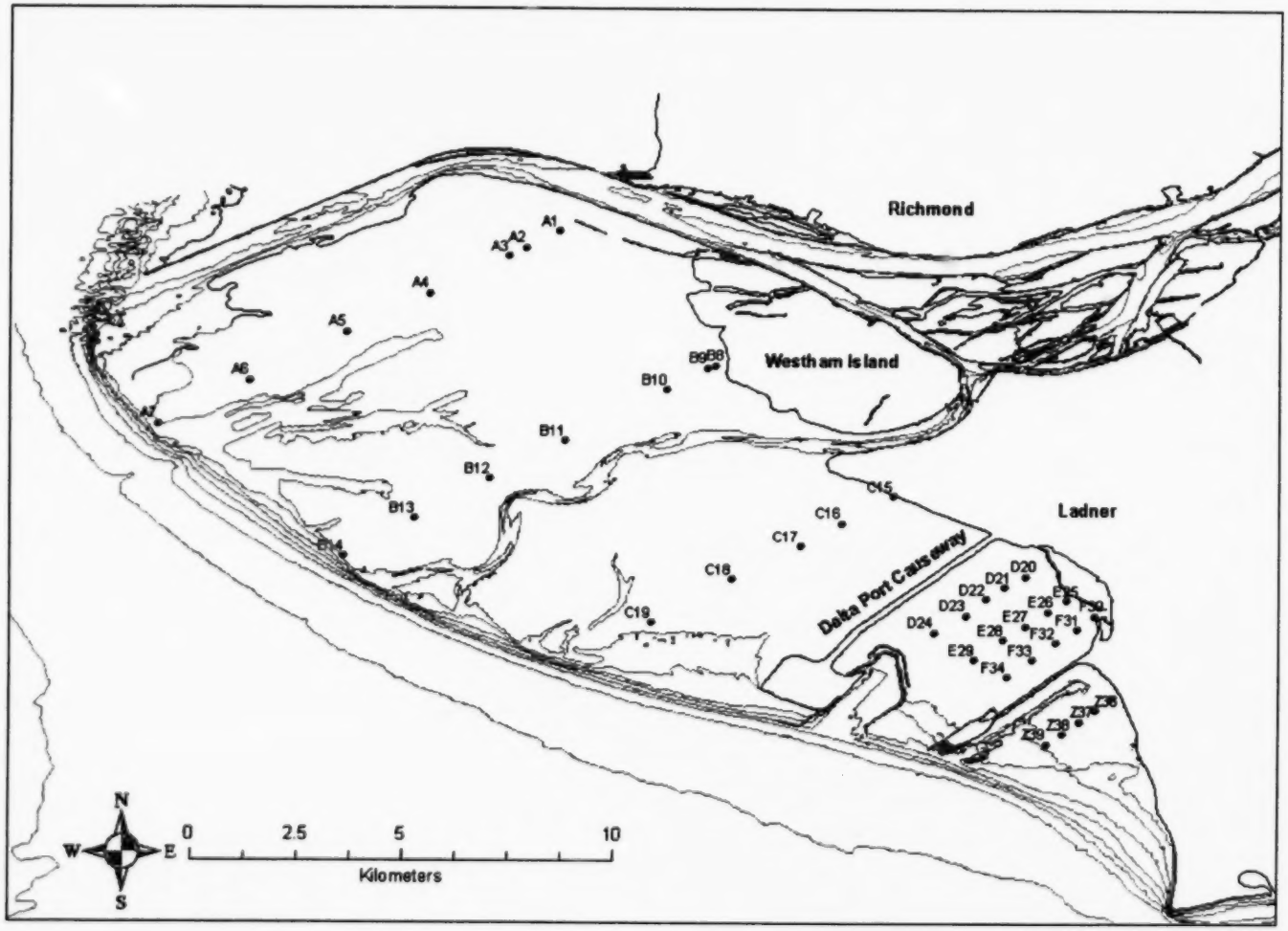


Figure 2. Location of sampling stations at Roberts Bank, British Columbia.

Table 1. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A2 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A2 | GPS | N 49.11190° | W 123.22265° | Date | Jun 16, 2003 | Time (PST) | 1030 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 82.59 | 66.39 | 73.39 | 74.12 | 6.63 | 48.32 | 41.57 | 42.56 | 44.15 | 2.97 | 1.71 | 1.60 | 1.72 | 1.68 | 0.06 |
| 1-2 | 57.86 | 60.60 | 93.80 | 70.75 | 16.33 | 59.02 | 58.12 | 79.68 | 65.61 | 9.96 | 0.98 | 1.04 | 1.18 | 1.07 | 0.08 |
| 2-3 | 53.60 | 46.29 | 79.91 | 59.93 | 14.44 | 72.39 | 76.74 | 95.29 | 81.47 | 9.93 | 0.74 | 0.60 | 0.84 | 0.73 | 0.10 |
| 3-4 | 59.20 | 52.68 | 43.55 | 51.81 | 6.42 | 76.38 | 67.27 | 53.03 | 65.56 | 9.61 | 0.78 | 0.78 | 0.82 | 0.79 | 0.02 |
| 4-5 | 62.12 | 71.87 | 55.30 | 63.10 | 6.80 | 38.76 | 45.93 | 40.66 | 41.79 | 3.03 | 1.60 | 1.56 | 1.36 | 1.51 | 0.11 |
| 5-10 | 1.41 | | 1.62 | 1.52 | 0.11 | 0.94 | | 0.75 | 0.85 | 0.10 | 1.49 | | 2.15 | 1.82 | 0.33 |
| 10-15 | 1.60 | 33.62 | 1.10 | 12.11 | 15.21 | 1.31 | 21.99 | 0.46 | 7.92 | 9.96 | 1.22 | 1.53 | 2.42 | 1.72 | 0.51 |
| 15-20 | 1.88 | 25.00 | 55.55 | 27.47 | 21.98 | 0.48 | 15.21 | 15.81 | 10.50 | 7.09 | 3.92 | 1.64 | 3.51 | 3.02 | 0.99 |
| 20-30 | 0.74 | 11.09 | 0.74 | 4.19 | 4.88 | 0.54 | 9.46 | 0.72 | 3.58 | 4.16 | 1.37 | 1.17 | 1.03 | 1.19 | 0.14 |
| 30-40 | 14.37 | 3.46 | 0.42 | 6.09 | 5.99 | 12.45 | 4.17 | 0.30 | 5.64 | 5.07 | 1.15 | 0.83 | 1.39 | 1.12 | 0.23 |

Table 2. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A3 located on Roberts Bank, British Columbia on June 15, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A3 | GPS | N 49.10980° | W 123.22623° | Date | Jun 15, 2003 | Time (PST) | 1000 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 31.98 | 38.68 | 27.71 | 32.79 | 4.51 | 17.54 | 22.53 | 15.66 | 18.58 | 2.90 | 1.82 | 1.72 | 1.77 | 1.77 | 0.04 |
| 1-2 | 41.11 | 43.55 | 31.37 | 38.68 | 5.26 | 20.10 | 24.73 | 25.84 | 23.56 | 2.49 | 2.05 | 1.76 | 1.21 | 1.67 | 0.35 |
| 2-3 | 38.37 | 35.63 | 22.84 | 32.28 | 6.77 | 20.38 | 20.96 | 27.30 | 22.88 | 3.13 | 1.88 | 1.70 | 0.84 | 1.47 | 0.46 |
| 3-4 | 41.11 | 45.38 | 33.19 | 39.89 | 5.05 | 25.63 | 24.44 | 22.48 | 24.19 | 1.30 | 1.60 | 1.86 | 1.48 | 1.65 | 0.16 |
| 4-5 | 33.50 | 38.68 | 30.45 | 34.21 | 3.39 | 20.02 | 21.30 | 13.53 | 18.28 | 3.40 | 1.67 | 1.82 | 2.25 | 1.91 | 0.25 |
| 5-10 | 11.88 | 13.89 | 6.94 | 10.90 | 2.92 | 8.18 | 5.98 | 5.61 | 6.59 | 1.13 | 1.45 | 2.32 | 1.24 | 1.67 | 0.47 |
| 10-15 | 11.76 | 8.89 | 7.86 | 9.50 | 1.65 | 7.07 | 6.55 | 3.52 | 5.71 | 1.56 | 1.66 | 1.36 | 2.23 | 1.75 | 0.36 |
| 15-20 | 7.31 | 6.76 | 8.34 | 7.47 | 0.66 | 6.22 | 6.10 | 4.82 | 5.71 | 0.63 | 1.17 | 1.11 | 1.73 | 1.34 | 0.28 |
| 20-30 | 6.64 | 4.17 | 7.97 | 6.26 | 1.57 | 1.64 | 2.13 | 4.43 | 2.73 | 1.22 | 4.06 | 1.96 | 1.80 | 2.60 | 1.03 |
| 30-40 | 10.60 | 7.49 | 5.09 | 7.73 | 2.26 | 3.23 | 2.20 | 1.50 | 2.31 | 0.71 | 3.28 | 3.41 | 3.40 | 3.36 | 0.06 |

Table 3. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A4 located on Roberts Bank, British Columbia on June 15, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A4 | GPS | N 49.10167° | W 123.24248° | Date | Jun 15, 2003 | Time (PST) | 1200 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 7.12 | 10.90 | 9.56 | 9.19 | 1.57 | 8.68 | 13.77 | 19.84 | 14.10 | 4.56 | 0.82 | 0.79 | 0.48 | 0.70 | 0.15 | |
| 1-2 | 6.13 | 6.09 | 10.81 | 7.68 | 2.22 | 8.94 | 20.05 | 16.72 | 15.24 | 4.66 | 0.69 | 0.30 | 0.65 | 0.55 | 0.17 | |
| 2-3 | 14.01 | 8.53 | 7.61 | 10.05 | 2.82 | 21.98 | 29.92 | 17.30 | 23.07 | 5.21 | 0.64 | 0.28 | 0.44 | 0.45 | 0.14 | |
| 3-4 | 16.14 | 7.98 | 3.96 | 9.36 | 5.07 | 18.62 | 20.56 | 34.80 | 24.66 | 7.21 | 0.87 | 0.39 | 0.11 | 0.46 | 0.31 | |
| 4-5 | 10.66 | 7.92 | | 9.29 | 1.37 | 25.94 | 20.69 | | 23.32 | 2.63 | 0.41 | 0.38 | | 0.40 | 0.01 | |
| 5-10 | 2.50 | 4.39 | 8.77 | 5.22 | 2.63 | 5.56 | 5.21 | 17.87 | 9.55 | 5.88 | 0.45 | 0.84 | 0.49 | 0.59 | 0.18 | |
| 10-15 | 0.85 | 4.93 | 9.99 | 5.26 | 3.74 | 2.26 | 4.72 | 11.30 | 6.09 | 3.81 | 0.38 | 1.04 | 0.88 | 0.77 | 0.28 | |
| 15-20 | 1.02 | 1.48 | 2.25 | 1.58 | 0.51 | 2.03 | 3.42 | 9.62 | 5.02 | 3.30 | 0.50 | 0.43 | 0.23 | 0.39 | 0.11 | |
| 20-30 | 1.27 | 0.45 | 3.87 | 1.86 | 1.46 | 1.44 | 1.37 | 5.73 | 2.85 | 2.04 | 0.88 | 0.33 | 0.68 | 0.63 | 0.23 | |
| 30-40 | 0.84 | 0.99 | 0.88 | 0.91 | 0.06 | 2.19 | 1.97 | 3.67 | 2.61 | 0.75 | 0.38 | 0.50 | 0.24 | 0.38 | 0.11 | |

Table 4. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A5 located on Roberts Bank, British Columbia on June 15, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A5 | GPS | N 49.09358° | W 123.26085° | Date | Jun 15, 2003 | Time (PST) | 1110 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 16.02 | 20.28 | 14.86 | 17.05 | 2.33 | 4.40 | 4.75 | 7.65 | 5.60 | 1.46 | 3.64 | 4.27 | 1.94 | 3.28 | 0.98 | |
| 1-2 | 15.01 | 9.44 | 18.18 | 14.21 | 3.61 | 7.35 | 2.21 | 7.13 | 5.56 | 2.37 | 2.04 | 4.27 | 2.55 | 2.96 | 0.95 | |
| 2-3 | 12.82 | 8.79 | 14.16 | 11.93 | 2.28 | 7.45 | 4.16 | 9.37 | 6.99 | 2.15 | 1.72 | 2.11 | 1.51 | 1.78 | 0.25 | |
| 3-4 | 7.35 | 9.90 | 11.18 | 9.47 | 1.59 | 6.11 | 9.14 | 8.91 | 8.05 | 1.38 | 1.20 | 1.08 | 1.25 | 1.18 | 0.07 | |
| 4-5 | 7.80 | 8.92 | 7.38 | 8.04 | 0.65 | 7.38 | 12.18 | 5.99 | 8.52 | 2.65 | 1.06 | 0.73 | 1.23 | 1.01 | 0.21 | |
| 5-10 | 2.98 | 2.74 | 2.59 | 2.77 | 0.16 | 2.74 | 3.78 | 2.12 | 2.88 | 0.69 | 1.09 | 0.73 | 1.22 | 1.01 | 0.21 | |
| 10-15 | 1.23 | 1.08 | 1.23 | 1.18 | 0.07 | 1.26 | 0.88 | 0.90 | 1.01 | 0.17 | 0.97 | 1.23 | 1.37 | 1.19 | 0.16 | |
| 15-20 | 0.97 | 0.89 | 0.85 | 0.90 | 0.05 | 1.26 | 0.89 | 0.83 | 0.99 | 0.19 | 0.77 | 1.00 | 1.03 | 0.93 | 0.11 | |
| 20-30 | 0.47 | 0.47 | 0.48 | 0.47 | 0.00 | 0.69 | 0.81 | 0.52 | 0.67 | 0.12 | 0.68 | 0.58 | 0.93 | 0.73 | 0.15 | |
| 30-40 | 0.41 | 0.38 | 0.38 | 0.39 | 0.02 | 1.03 | 1.02 | 0.62 | 0.89 | 0.19 | 0.40 | 0.37 | 0.62 | 0.46 | 0.11 | |

Table 5. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A6 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A6 | GPS | N 49.08555° | W 123.28115° | Date | Jun 16, 2003 | Time (PST) | 1430 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | | 10.51 | 7.54 | 9.02 | 4.42 | | 2.18 | 4.73 | 3.45 | 1.27 | | 4.82 | 1.59 | 3.21 | 1.61 |
| 1-2 | | 2.93 | 3.84 | 3.39 | 1.64 | | 2.87 | 4.73 | 3.80 | 0.93 | | 1.02 | 0.81 | 0.92 | 0.10 |
| 2-3 | | 1.75 | 2.59 | 2.17 | 1.08 | | 3.94 | 8.22 | 6.08 | 2.14 | | 0.44 | 0.32 | 0.38 | 0.06 |
| 3-4 | | 1.03 | 1.26 | 1.14 | 0.55 | | 4.32 | 5.13 | 4.72 | 0.40 | | 0.24 | 0.25 | 0.24 | 0.00 |
| 4-5 | | 0.76 | 0.80 | 0.78 | 0.37 | | 2.71 | 1.35 | 2.03 | 0.68 | | 0.28 | 0.59 | 0.44 | 0.16 |
| 5-10 | | 0.43 | 0.32 | 0.37 | 0.18 | | 2.11 | 0.63 | 1.37 | 0.74 | | 0.20 | 0.50 | 0.35 | 0.15 |
| 10-15 | | 0.26 | 0.27 | 0.26 | 0.12 | | 0.63 | 0.57 | 0.60 | 0.03 | | 0.41 | 0.47 | 0.44 | 0.03 |
| 15-20 | | 0.29 | 0.24 | 0.27 | 0.13 | | 0.94 | 0.83 | 0.89 | 0.05 | | 0.31 | 0.29 | 0.30 | 0.01 |
| 20-30 | | 0.13 | 0.08 | 0.10 | 0.05 | | 0.60 | 0.26 | 0.43 | 0.17 | | 0.21 | 0.30 | 0.26 | 0.05 |
| 30-40 | | 0.08 | 0.06 | 0.07 | 0.03 | | 0.22 | 0.22 | 0.22 | 0.00 | | 0.36 | 0.29 | 0.33 | 0.04 |

Table 6. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B10 located on Roberts Bank, British Columbia on June 15, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B10 | GPS | N 49.07933° | W 123.19400° | Date | Jun 15, 2003 | Time (PST) | 1630 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 28.02 | 33.50 | 43.24 | 34.92 | 6.30 | 6.12 | 12.95 | 6.28 | 8.45 | 3.18 | 4.57 | 2.59 | 6.89 | 4.68 | 1.76 |
| 1-2 | 44.16 | 58.17 | 56.95 | 53.09 | 6.34 | 16.44 | 18.11 | 4.88 | 13.14 | 5.88 | 2.69 | 3.21 | 11.68 | 5.86 | 4.12 |
| 2-3 | 71.87 | 29.84 | 64.56 | 55.43 | 18.33 | 9.95 | 38.13 | 4.95 | 17.68 | 14.61 | 7.23 | 0.78 | 13.04 | 7.02 | 5.01 |
| 3-4 | 62.43 | 52.68 | 49.94 | 55.02 | 5.36 | 25.85 | 25.75 | 20.80 | 24.13 | 2.36 | 2.42 | 2.05 | 2.40 | 2.29 | 0.17 |
| 4-5 | 69.43 | 49.64 | 40.20 | 53.09 | 12.18 | 15.77 | 15.57 | 20.09 | 17.14 | 2.09 | 4.40 | 3.19 | 2.00 | 3.20 | 0.98 |
| 5-10 | 20.12 | 22.41 | 15.45 | 19.33 | 2.90 | 4.68 | 4.65 | 6.85 | 5.39 | 1.03 | 4.30 | 4.82 | 2.26 | 3.79 | 1.11 |
| 10-15 | 21.83 | 17.01 | 16.62 | 18.48 | 2.37 | 4.50 | 4.99 | 4.74 | 4.75 | 0.20 | 4.85 | 3.41 | 3.50 | 3.92 | 0.66 |
| 15-20 | 24.51 | 18.76 | 22.56 | 21.94 | 2.39 | 4.87 | 4.12 | 5.84 | 4.94 | 0.70 | 5.03 | 4.55 | 3.87 | 4.48 | 0.48 |
| 20-30 | 5.91 | 4.02 | 8.74 | 6.22 | 1.94 | 1.26 | 1.06 | 0.39 | 0.90 | 0.37 | 4.69 | 3.81 | 22.13 | 10.21 | 8.43 |
| 30-40 | 1.55 | 3.44 | 5.76 | 3.58 | 1.72 | 1.92 | 0.62 | 2.09 | 1.54 | 0.66 | 0.81 | 5.56 | 2.76 | 3.04 | 1.95 |

Table 7. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B11 located on Roberts Bank, British Columbia on June 15, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B11 | GPS | N 49.07055° | W 123.21350° | Date | Jun 15, 2003 | Time (PST) | 1600 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 13.16 | 9.78 | 12.15 | 11.69 | 1.42 | 8.93 | 14.49 | 15.56 | 12.99 | 2.91 | 1.47 | 0.67 | 0.78 | 0.98 | 0.35 | |
| 1-2 | 11.94 | 12.52 | 11.24 | 11.90 | 0.52 | 7.69 | 11.44 | 9.71 | 9.61 | 1.54 | 1.55 | 1.09 | 1.16 | 1.27 | 0.20 | |
| 2-3 | 8.68 | 9.96 | 12.94 | 10.53 | 1.79 | 5.39 | 11.05 | 5.67 | 7.37 | 2.60 | 1.61 | 0.90 | 2.28 | 1.60 | 0.56 | |
| 3-4 | 8.30 | 5.22 | 7.19 | 6.90 | 1.28 | 4.47 | 5.51 | 3.49 | 4.49 | 0.82 | 1.86 | 0.95 | 2.06 | 1.62 | 0.48 | |
| 4-5 | 6.05 | 7.31 | 8.76 | 7.37 | 1.10 | 3.44 | 7.42 | 4.05 | 4.97 | 1.75 | 1.76 | 0.99 | 2.16 | 1.64 | 0.49 | |
| 5-10 | 3.84 | 3.35 | 3.72 | 3.63 | 0.21 | 2.38 | 5.63 | 4.16 | 4.06 | 1.33 | 1.61 | 0.59 | 0.89 | 1.03 | 0.43 | |
| 10-15 | 2.98 | 3.59 | 4.26 | 3.61 | 0.52 | 2.44 | 3.30 | 3.86 | 3.20 | 0.58 | 1.22 | 1.09 | 1.11 | 1.14 | 0.06 | |
| 15-20 | 2.78 | 2.33 | 4.26 | 3.12 | 0.83 | 2.66 | 1.91 | 2.44 | 2.34 | 0.32 | 1.04 | 1.22 | 1.75 | 1.34 | 0.30 | |
| 20-30 | 1.77 | 1.37 | 1.74 | 1.63 | 0.18 | 1.83 | 1.48 | 1.62 | 1.64 | 0.14 | 0.96 | 0.93 | 1.07 | 0.99 | 0.06 | |
| 30-40 | 1.67 | 1.55 | 2.25 | 1.83 | 0.31 | 2.23 | 2.08 | 2.05 | 2.12 | 0.08 | 0.75 | 0.75 | 1.10 | 0.87 | 0.16 | |

Table 8. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B12 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B12 | GPS | N 49.06262° | W 123.22867° | Date | Jun 16, 2003 | Time (PST) | 1245 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 18.91 | 24.06 | 5.14 | 16.04 | 7.99 | 5.97 | 9.16 | 3.09 | 6.07 | 2.48 | 3.17 | 2.63 | 1.66 | 2.49 | 0.62 | |
| 1-2 | 9.90 | 10.81 | 3.31 | 8.01 | 3.34 | 3.29 | 7.67 | 4.11 | 5.02 | 1.90 | 3.01 | 1.41 | 0.81 | 1.74 | 0.93 | |
| 2-3 | 7.31 | 12.55 | 3.54 | 7.80 | 3.69 | 3.80 | 10.15 | 7.03 | 7.00 | 2.59 | 1.92 | 1.24 | 0.50 | 1.22 | 0.58 | |
| 3-4 | 10.42 | 9.56 | 2.66 | 7.55 | 3.47 | 10.13 | 11.85 | 4.45 | 8.81 | 3.16 | 1.03 | 0.81 | 0.60 | 0.81 | 0.18 | |
| 4-5 | 12.70 | 6.51 | 2.36 | 7.19 | 4.25 | 13.85 | 4.95 | 3.29 | 7.36 | 4.63 | 0.92 | 1.32 | 0.72 | 0.98 | 0.25 | |
| 5-10 | 7.07 | 3.35 | 0.85 | 3.75 | 2.56 | 2.41 | 4.09 | 1.44 | 2.65 | 1.10 | 2.93 | 0.82 | 0.59 | 1.45 | 1.06 | |
| 10-15 | 2.16 | 0.92 | 0.84 | 1.30 | 0.60 | 3.05 | 1.39 | 1.34 | 1.92 | 0.80 | 0.71 | 0.66 | 0.63 | 0.67 | 0.03 | |
| 15-20 | 1.10 | 0.79 | 2.07 | 1.32 | 0.54 | 2.33 | 1.16 | 4.63 | 2.71 | 1.44 | 0.47 | 0.68 | 0.45 | 0.53 | 0.10 | |
| 20-30 | 0.87 | 0.91 | 0.49 | 0.76 | 0.19 | 1.75 | 1.80 | 0.97 | 1.50 | 0.38 | 0.50 | 0.51 | 0.51 | 0.51 | 0.01 | |
| 30-40 | 0.47 | 1.13 | 0.38 | 0.66 | 0.33 | 0.68 | 3.09 | 0.59 | 1.45 | 1.16 | 0.69 | 0.36 | 0.65 | 0.57 | 0.14 | |

Table 9. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B13 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B13 | GPS | N 49.05370° | W 123.24553° | Date | Jun 16, 2003 | Time (PST) | 1300 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 70.35 | 12.39 | 23.45 | 35.40 | 25.12 | 7.47 | 6.46 | 10.69 | 8.21 | 1.80 | 9.42 | 1.92 | 2.19 | 4.51 | 3.47 | |
| 1-2 | 37.76 | 7.19 | 11.30 | 18.75 | 13.55 | 5.91 | 3.49 | 7.25 | 5.55 | 1.55 | 6.39 | 2.06 | 1.56 | 3.33 | 2.17 | |
| 2-3 | 29.24 | 5.29 | 5.79 | 13.44 | 11.17 | 9.52 | 4.55 | 6.59 | 6.89 | 2.04 | 3.07 | 1.16 | 0.88 | 1.70 | 0.97 | |
| 3-4 | 28.93 | 2.13 | 3.77 | 11.61 | 12.27 | 11.67 | 6.11 | 7.73 | 8.50 | 2.33 | 2.48 | 0.35 | 0.49 | 1.11 | 0.97 | |
| 4-5 | 21.93 | 1.41 | 3.96 | 9.10 | 9.13 | 10.68 | 3.67 | 7.27 | 7.20 | 2.86 | 2.05 | 0.38 | 0.54 | 0.99 | 0.75 | |
| 5-10 | 11.51 | 1.71 | 3.35 | 5.52 | 4.29 | 5.96 | 4.63 | 5.02 | 5.20 | 0.56 | 1.93 | 0.37 | 0.67 | 0.99 | 0.68 | |
| 10-15 | 5.85 | 0.72 | 2.44 | 3.00 | 2.13 | 5.53 | 2.47 | 5.01 | 4.34 | 1.34 | 1.06 | 0.29 | 0.49 | 0.61 | 0.33 | |
| 15-20 | 2.68 | 0.61 | 1.98 | 1.76 | 0.86 | 4.21 | 3.18 | 3.40 | 3.60 | 0.44 | 0.64 | 0.19 | 0.58 | 0.47 | 0.20 | |
| 20-30 | 1.22 | 0.30 | 0.32 | 0.62 | 0.43 | 2.53 | 1.20 | 1.23 | 1.65 | 0.62 | 0.48 | 0.25 | 0.26 | 0.33 | 0.10 | |
| 30-40 | 0.37 | 0.21 | 0.35 | 0.31 | 0.07 | 1.11 | 0.78 | 1.47 | 1.12 | 0.28 | 0.33 | 0.27 | 0.24 | 0.28 | 0.04 | |

Table 10. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B14 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B14 | GPS | N 49.04615° | W 123.26015° | Date | Jun 16, 2003 | Time (PST) | 1230 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 7.65 | 4.99 | 4.64 | 5.76 | 1.34 | 2.15 | 1.90 | 1.55 | 1.86 | 0.25 | 3.55 | 2.63 | 3.00 | 3.06 | 0.38 | |
| 1-2 | 3.31 | 4.11 | 3.92 | 3.78 | 0.34 | 1.57 | 1.62 | 1.50 | 1.56 | 0.05 | 2.11 | 2.54 | 2.61 | 2.42 | 0.22 | |
| 2-3 | 2.09 | 2.70 | 2.86 | 2.55 | 0.33 | 2.06 | 2.18 | 2.07 | 2.10 | 0.06 | 1.02 | 1.24 | 1.38 | 1.21 | 0.15 | |
| 3-4 | 1.17 | 1.83 | 1.56 | 1.52 | 0.27 | 1.39 | 2.25 | 2.86 | 2.17 | 0.60 | 0.84 | 0.81 | 0.55 | 0.73 | 0.13 | |
| 4-5 | 0.69 | 1.02 | 0.72 | 0.81 | 0.15 | 1.16 | 1.56 | 4.27 | 2.33 | 1.38 | 0.60 | 0.65 | 0.17 | 0.47 | 0.22 | |
| 5-10 | 0.43 | 0.43 | 0.33 | 0.40 | 0.04 | 0.71 | 1.79 | 0.88 | 1.13 | 0.47 | 0.61 | 0.24 | 0.38 | 0.41 | 0.15 | |
| 10-15 | 0.22 | 0.18 | 0.22 | 0.21 | 0.02 | 0.52 | 0.54 | 1.14 | 0.73 | 0.29 | 0.42 | 0.34 | 0.19 | 0.32 | 0.09 | |
| 15-20 | 0.15 | 0.10 | 0.18 | 0.14 | 0.03 | 0.52 | 0.39 | 0.89 | 0.60 | 0.21 | 0.29 | 0.25 | 0.20 | 0.24 | 0.04 | |
| 20-30 | 0.09 | 0.05 | 0.10 | 0.08 | 0.02 | 0.68 | 0.27 | 0.48 | 0.48 | 0.17 | 0.13 | 0.19 | 0.20 | 0.17 | 0.03 | |
| 30-40 | 0.07 | 0.07 | 0.05 | 0.06 | 0.01 | 0.47 | 0.27 | 0.26 | 0.33 | 0.09 | 0.16 | 0.24 | 0.20 | 0.20 | 0.04 | |

Table 11. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C16 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C16 | GPS | N 49.05273° | W 123.15477° | Date | Jun 16, 2003 | Time (PST) | 1200 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 49.64 | 19.43 | 19.49 | 29.52 | 14.23 | 9.11 | 8.31 | 13.11 | 10.18 | 2.10 | 5.45 | 2.34 | 1.49 | 3.09 | 1.70 | |
| 1-2 | 35.93 | 35.93 | 32.28 | 34.72 | 1.72 | 25.89 | 5.59 | 18.16 | 16.55 | 8.37 | 1.39 | 6.43 | 1.78 | 3.20 | 2.29 | |
| 2-3 | 30.45 | 26.80 | 25.89 | 27.71 | 1.97 | 24.60 | 18.72 | 16.87 | 20.06 | 3.30 | 1.24 | 1.43 | 1.53 | 1.40 | 0.12 | |
| 3-4 | 38.68 | 23.45 | 25.28 | 29.13 | 6.79 | 23.46 | 19.61 | 17.78 | 20.28 | 2.36 | 1.65 | 1.20 | 1.42 | 1.42 | 0.19 | |
| 4-5 | 36.24 | 20.71 | 31.98 | 29.64 | 6.55 | 17.59 | 13.43 | 15.70 | 15.57 | 1.70 | 2.06 | 1.54 | 2.04 | 1.88 | 0.24 | |
| 5-10 | 9.87 | 6.15 | 10.48 | 8.83 | 1.91 | 0.78 | 4.43 | 7.43 | 4.21 | 2.72 | 12.73 | 1.39 | 1.41 | 5.18 | 5.34 | |
| 10-15 | 8.28 | 4.87 | 3.72 | 5.62 | 1.94 | 4.64 | 3.92 | 3.73 | 4.10 | 0.39 | 1.79 | 1.24 | 1.00 | 1.34 | 0.33 | |
| 15-20 | 5.73 | 4.39 | 4.20 | 4.77 | 0.68 | 3.44 | 2.50 | 3.98 | 3.31 | 0.61 | 1.66 | 1.75 | 1.06 | 1.49 | 0.31 | |
| 20-30 | 2.22 | 3.08 | 1.95 | 2.42 | 0.48 | 2.54 | 0.95 | 3.28 | 2.26 | 0.97 | 0.87 | 3.23 | 0.59 | 1.56 | 1.18 | |
| 30-40 | 1.86 | 1.27 | 1.95 | 1.69 | 0.30 | 2.82 | 1.78 | 2.02 | 2.20 | 0.44 | 0.66 | 0.72 | 0.97 | 0.78 | 0.13 | |

Table 12. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C17 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C17 | GPS | N 49.04830° | W 123.16345° | Date | Jun 16, 2003 | Time (PST) | 1100 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 14.92 | 17.05 | 23.45 | 18.48 | 3.62 | 20.76 | 18.32 | 21.15 | 20.07 | 1.25 | 0.72 | 0.93 | 1.11 | 0.92 | 0.16 | |
| 1-2 | 22.54 | 17.97 | 18.88 | 19.79 | 1.97 | 18.99 | 18.02 | 23.56 | 20.19 | 2.42 | 1.19 | 1.00 | 0.80 | 1.00 | 0.16 | |
| 2-3 | 17.66 | 25.89 | 12.49 | 18.68 | 5.52 | 18.02 | 7.64 | 32.42 | 19.36 | 10.16 | 0.98 | 3.39 | 0.39 | 1.58 | 1.30 | |
| 3-4 | 10.35 | 14.16 | 13.70 | 12.74 | 1.70 | 19.79 | 15.83 | 27.20 | 20.94 | 4.72 | 0.52 | 0.89 | 0.50 | 0.64 | 0.18 | |
| 4-5 | 24.06 | 13.28 | 11.51 | 16.28 | 5.55 | 12.85 | 16.99 | 19.00 | 16.28 | 2.56 | 1.87 | 0.78 | 0.61 | 1.09 | 0.56 | |
| 5-10 | 8.10 | 5.12 | 5.30 | 6.17 | 1.37 | 7.52 | 5.10 | 6.70 | 6.44 | 1.01 | 1.08 | 1.00 | 0.79 | 0.96 | 0.12 | |
| 10-15 | 6.76 | 4.69 | 5.60 | 5.68 | 0.85 | 6.03 | 5.83 | 4.85 | 5.57 | 0.51 | 1.12 | 0.80 | 1.15 | 1.03 | 0.16 | |
| 15-20 | 9.75 | 6.64 | 6.46 | 7.61 | 1.51 | 3.30 | 6.16 | 6.03 | 5.16 | 1.32 | 2.96 | 1.08 | 1.07 | 1.70 | 0.89 | |
| 20-30 | 2.86 | 2.71 | 3.38 | 2.98 | 0.29 | 2.34 | 3.29 | 3.85 | 3.16 | 0.62 | 1.23 | 0.82 | 0.88 | 0.98 | 0.18 | |
| 30-40 | 2.62 | 2.22 | 4.90 | 3.25 | 1.18 | 2.92 | 3.59 | 1.13 | 2.54 | 1.04 | 0.90 | 0.62 | 4.36 | 1.96 | 1.70 | |

Table 13. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C18 located on Roberts Bank, British Columbia on June 15, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C18 | GPS | N 49.04122° | W 123.17783° | Date | Jun 16, 2003 | Time (PST) | 1530 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 6.89 | 5.94 | 14.31 | 9.05 | 3.74 | 5.99 | 9.56 | 12.45 | 9.33 | 2.64 | 1.15 | 0.62 | 1.15 | 0.97 | 0.25 |
| 1-2 | 5.29 | 4.83 | 6.09 | 5.41 | 0.52 | 8.32 | 10.51 | 7.52 | 8.78 | 1.26 | 0.64 | 0.46 | 0.81 | 0.64 | 0.14 |
| 2-3 | 4.80 | 7.89 | 5.22 | 5.97 | 1.37 | 7.89 | 17.98 | 9.09 | 11.65 | 4.50 | 0.61 | 0.44 | 0.57 | 0.54 | 0.07 |
| 3-4 | 3.69 | 4.42 | 4.72 | 4.28 | 0.43 | 6.61 | 12.54 | 10.01 | 9.72 | 2.43 | 0.56 | 0.35 | 0.47 | 0.46 | 0.08 |
| 4-5 | 3.73 | 8.59 | 4.49 | 5.60 | 2.13 | 7.57 | 16.26 | 9.66 | 11.16 | 3.71 | 0.49 | 0.53 | 0.47 | 0.50 | 0.03 |
| 5-10 | 1.64 | 2.80 | 4.57 | 3.00 | 1.20 | 5.68 | 6.49 | 13.52 | 8.56 | 3.52 | 0.29 | 0.43 | 0.34 | 0.35 | 0.06 |
| 10-15 | 4.08 | 4.26 | 4.45 | 4.26 | 0.15 | 10.31 | 3.61 | 8.84 | 7.59 | 2.88 | 0.40 | 1.18 | 0.50 | 0.69 | 0.35 |
| 15-20 | 5.73 | 5.12 | 3.59 | 4.81 | 0.90 | 8.42 | 5.10 | 9.20 | 7.57 | 1.78 | 0.68 | 1.00 | 0.39 | 0.69 | 0.25 |
| 20-30 | 3.29 | 1.74 | 1.71 | 2.24 | 0.74 | 4.06 | 5.12 | 3.62 | 4.27 | 0.63 | 0.81 | 0.34 | 0.47 | 0.54 | 0.20 |
| 30-40 | 3.56 | 4.26 | 1.04 | 2.95 | 1.39 | 2.99 | 7.86 | 2.41 | 4.42 | 2.44 | 1.19 | 0.54 | 0.43 | 0.72 | 0.34 |



Table 14. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C19 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C19 | GPS | N 49.03173° | W 123.19428° | Date | Jun 16, 2003 | Time (PST) | 1330 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 4.72 | 3.58 | 4.04 | 4.11 | 0.47 | 2.82 | 3.27 | 2.31 | 2.80 | 0.39 | 1.68 | 1.10 | 1.75 | 1.51 | 0.29 |
| 1-2 | 3.46 | 3.73 | 3.12 | 3.44 | 0.25 | 2.11 | 3.84 | 2.11 | 2.69 | 0.82 | 1.64 | 0.97 | 1.48 | 1.36 | 0.29 |
| 2-3 | 3.58 | 3.81 | 3.08 | 3.49 | 0.30 | 2.04 | 3.96 | 1.91 | 2.64 | 0.94 | 1.76 | 0.96 | 1.61 | 1.44 | 0.35 |
| 3-4 | 3.73 | 3.50 | 2.74 | 3.32 | 0.42 | 2.42 | 2.76 | 2.10 | 2.43 | 0.27 | 1.54 | 1.27 | 1.30 | 1.37 | 0.12 |
| 4-5 | 3.77 | 2.89 | 2.59 | 3.08 | 0.50 | 2.11 | 2.03 | 1.49 | 1.88 | 0.28 | 1.78 | 1.43 | 1.74 | 1.65 | 0.16 |
| 5-10 | 1.09 | 0.91 | | 1.00 | 0.09 | 0.99 | 1.03 | | 1.01 | 0.02 | 1.10 | 0.88 | | 0.99 | 0.11 |
| 10-15 | 0.98 | 0.88 | | 0.93 | 0.05 | 1.35 | 1.52 | | 1.44 | 0.09 | 0.73 | 0.57 | | 0.65 | 0.08 |
| 15-20 | 0.91 | 0.92 | | 0.91 | 0.01 | 1.36 | 2.03 | | 1.70 | 0.33 | 0.66 | 0.45 | | 0.56 | 0.11 |
| 20-30 | 0.45 | 0.34 | 0.00 | 0.26 | 0.19 | 0.91 | 0.91 | 0.01 | 0.61 | 0.42 | 0.49 | 0.37 | 0.21 | 0.36 | 0.12 |
| 30-40 | 0.50 | 0.32 | | 0.41 | 0.09 | 0.80 | 0.76 | | 0.78 | 0.02 | 0.62 | 0.42 | | 0.52 | 0.10 |

Table 15. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D21 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D21 | GPS | N 49.03983° | W 123.11993° | Date | Jun 16, 2003 | Time (PST) | 1600 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 9.04 | 5.48 | 13.22 | 9.25 | 3.16 | 9.69 | 5.32 | 7.27 | 7.43 | 1.79 | 0.93 | 1.03 | 1.82 | 1.26 | 0.40 |
| 1-2 | 5.48 | 6.59 | 7.88 | 6.65 | 0.98 | 8.21 | 7.79 | 6.77 | 7.59 | 0.60 | 0.67 | 0.84 | 1.16 | 0.89 | 0.21 |
| 2-3 | 5.14 | 6.47 | 7.31 | 6.31 | 0.89 | 7.66 | 8.06 | 7.69 | 7.80 | 0.18 | 0.67 | 0.80 | 0.95 | 0.81 | 0.11 |
| 3-4 | 4.45 | 5.18 | 8.50 | 6.04 | 1.76 | 6.97 | 6.86 | 13.99 | 9.27 | 3.34 | 0.64 | 0.76 | 0.61 | 0.67 | 0.06 |
| 4-5 | 3.24 | 4.30 | 5.44 | 4.33 | 0.90 | 6.11 | 5.96 | 8.01 | 6.69 | 0.93 | 0.53 | 0.72 | 0.68 | 0.64 | 0.08 |
| 5-10 | 2.07 | 1.71 | 2.07 | 1.95 | 0.17 | 9.49 | 5.49 | 7.34 | 7.44 | 1.64 | 0.22 | 0.31 | 0.28 | 0.27 | 0.04 |
| 10-15 | 2.98 | 2.13 | 3.17 | 2.76 | 0.45 | 10.92 | 5.93 | 4.21 | 7.02 | 2.84 | 0.27 | 0.36 | 0.75 | 0.46 | 0.21 |
| 15-20 | 3.72 | 3.47 | 2.01 | 3.07 | 0.75 | 7.97 | 2.86 | 5.00 | 5.28 | 2.09 | 0.47 | 1.21 | 0.40 | 0.69 | 0.37 |
| 20-30 | 1.52 | 1.95 | 1.00 | 1.49 | 0.39 | 3.83 | 1.80 | 2.07 | 2.57 | 0.90 | 0.40 | 1.08 | 0.49 | 0.65 | 0.30 |
| 30-40 | 2.10 | 1.16 | 1.34 | 1.53 | 0.41 | 1.96 | 2.07 | 1.92 | 1.98 | 0.06 | 1.07 | 0.56 | 0.70 | 0.78 | 0.22 |

Table 16. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D22 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D22 | GPS | N 49.03707° | W 123.12370° | Date | Jun 16, 2003 | Time (PST) | 1530 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 33.50 | 28.63 | 35.93 | 32.69 | 3.04 | 17.87 | 17.20 | 16.35 | 17.14 | 0.62 | 1.87 | 1.66 | 2.20 | 1.91 | 0.22 |
| 1-2 | | 39.89 | 28.93 | 34.41 | 5.48 | | 18.55 | 18.13 | 18.34 | 0.21 | | 2.15 | 1.60 | 1.87 | 0.28 |
| 2-3 | | 41.42 | 40.50 | 40.96 | 0.46 | | 19.79 | 7.48 | 13.64 | 6.16 | | 2.09 | 5.42 | 3.75 | 1.66 |
| 3-4 | 43.85 | 36.85 | 28.32 | 36.34 | 6.35 | 17.36 | 12.67 | 22.43 | 17.49 | 3.98 | 2.53 | 2.91 | 1.26 | 2.23 | 0.70 |
| 4-5 | 47.51 | 33.19 | 28.63 | 36.44 | 8.04 | 9.39 | 16.63 | 20.59 | 15.54 | 4.63 | 5.06 | 2.00 | 1.39 | 2.81 | 1.60 |
| 5-10 | 13.64 | 11.88 | 8.10 | 11.21 | 2.31 | 10.41 | 11.19 | 9.49 | 10.36 | 0.69 | 1.31 | 1.06 | 0.85 | 1.08 | 0.19 |
| 10-15 | 9.94 | 11.45 | 5.66 | 9.02 | 2.45 | 9.25 | 11.43 | 8.05 | 9.58 | 1.40 | 1.07 | 1.00 | 0.70 | 0.93 | 0.16 |
| 15-20 | 10.72 | 7.00 | 5.12 | 7.61 | 2.33 | 11.98 | 11.02 | 7.62 | 10.21 | 1.87 | 0.89 | 0.64 | 0.67 | 0.73 | 0.11 |
| 20-30 | 4.05 | 4.26 | 2.13 | 3.48 | 0.96 | 6.19 | 4.53 | 6.39 | 5.70 | 0.83 | 0.65 | 0.94 | 0.33 | 0.64 | 0.25 |
| 30-40 | 1.74 | 1.80 | 3.17 | 2.23 | 0.66 | 6.94 | 4.48 | 5.01 | 5.48 | 1.06 | 0.25 | 0.40 | 0.63 | 0.43 | 0.16 |

Table 17. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D23 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D23 | GPS | N 49.03352° | W 123.12878° | Date | Jun 16, 2003 | Time (PST) | Not Recorded | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 18.70 | 17.42 | 35.93 | 24.02 | 8.44 | 11.01 | 7.13 | 29.58 | 15.91 | 9.80 | 1.70 | 2.44 | 1.21 | 1.79 | 0.51 |
| 1-2 | 13.70 | 34.41 | 19.49 | 22.54 | 8.72 | 17.67 | 4.65 | 18.65 | 13.66 | 6.38 | 0.78 | 7.40 | 1.05 | 3.07 | 3.06 |
| 2-3 | 22.54 | 14.40 | 14.62 | 17.19 | 3.78 | 20.53 | 7.65 | 21.68 | 16.62 | 6.36 | 1.10 | 1.88 | 0.67 | 1.22 | 0.50 |
| 3-4 | 15.84 | 14.89 | 12.82 | 14.52 | 1.26 | 15.54 | 7.90 | 16.06 | 13.17 | 3.73 | 1.02 | 1.89 | 0.80 | 1.23 | 0.47 |
| 4-5 | 10.66 | 14.62 | 11.27 | 12.18 | 1.74 | 23.79 | 16.14 | 14.57 | 18.17 | 4.03 | 0.45 | 0.91 | 0.77 | 0.71 | 0.19 |
| 5-10 | 7.61 | 6.64 | 10.54 | 8.26 | 1.66 | 9.06 | 8.25 | 6.50 | 7.94 | 1.07 | 0.84 | 0.80 | 1.62 | 1.09 | 0.38 |
| 10-15 | 5.85 | 8.95 | 8.59 | 7.80 | 1.39 | 9.22 | 6.49 | 11.22 | 8.98 | 1.94 | 0.63 | 1.38 | 0.77 | 0.93 | 0.33 |
| 15-20 | 3.35 | 5.06 | 6.76 | 5.06 | 1.39 | 9.81 | 8.54 | 10.34 | 9.56 | 0.76 | 0.34 | 0.59 | 0.65 | 0.53 | 0.14 |
| 20-30 | 2.41 | 2.28 | 4.42 | 3.04 | 0.98 | 3.62 | 5.01 | 6.78 | 5.14 | 1.29 | 0.66 | 0.46 | 0.65 | 0.59 | 0.10 |
| 30-40 | 1.61 | 2.92 | 2.10 | 2.21 | 0.54 | 3.77 | 5.29 | 5.28 | 4.78 | 0.71 | 0.43 | 0.55 | 0.40 | 0.46 | 0.07 |

Table 18. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D24 located on Roberts Bank, British Columbia on June 15, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D24 | GPS | N 49.02997° | W 123.13472° | Date | Jun 15, 2003 | Time (PST) | 1400 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 16.75 | 17.36 | 15.53 | 16.55 | 0.76 | 67.83 | 97.68 | 97.04 | 87.52 | 13.92 | 0.25 | 0.18 | 0.16 | 0.19 | 0.04 |
| 1-2 | 21.32 | 10.05 | 12.49 | 14.62 | 4.84 | 71.88 | 113.60 | 97.32 | 94.27 | 17.17 | 0.30 | 0.09 | 0.13 | 0.17 | 0.09 |
| 2-3 | 20.40 | 33.80 | 17.66 | 23.96 | 7.05 | 57.41 | 73.54 | 59.85 | 63.60 | 7.10 | 0.36 | 0.46 | 0.30 | 0.37 | 0.07 |
| 3-4 | 13.40 | 10.96 | 14.31 | 12.89 | 1.41 | 47.50 | 77.93 | 64.12 | 63.18 | 12.44 | 0.28 | 0.14 | 0.22 | 0.22 | 0.06 |
| 4-5 | 22.54 | 13.40 | 10.05 | 15.33 | 5.28 | 65.43 | 66.88 | 65.31 | 65.87 | 0.71 | 0.34 | 0.20 | 0.15 | 0.23 | 0.08 |
| 5-10 | 9.75 | 6.27 | 3.59 | 6.54 | 2.52 | 48.33 | 24.05 | 19.60 | 30.66 | 12.62 | 0.20 | 0.26 | 0.18 | 0.22 | 0.03 |
| 10-15 | 8.38 | 6.27 | 3.65 | 6.10 | 1.93 | 34.34 | 20.18 | 14.37 | 22.96 | 8.39 | 0.24 | 0.31 | 0.25 | 0.27 | 0.03 |
| 15-20 | 7.19 | 3.35 | 3.47 | 4.67 | 1.78 | 21.48 | 14.67 | 14.55 | 16.90 | 3.24 | 0.33 | 0.23 | 0.24 | 0.27 | 0.05 |
| 20-30 | 4.19 | 2.68 | 2.22 | 3.03 | 0.84 | 13.82 | 9.22 | 8.91 | 10.65 | 2.24 | 0.30 | 0.29 | 0.25 | 0.28 | 0.02 |
| 30-40 | 3.56 | 1.83 | 1.80 | 2.40 | 0.83 | 8.31 | 9.77 | 8.75 | 8.94 | 0.61 | 0.43 | 0.19 | 0.21 | 0.27 | 0.11 |

Table 19. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E25 located on Roberts Bank, British Columbia on June 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E25 | GPS | N 49.03658° | W 123.10715° | Date | Jun 16, 2003 | Time (PST) | 1650 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 17.02 | 33.50 | 26.49 | 25.67 | 6.75 | 12.53 | 0.95 | 7.34 | 6.94 | 4.74 | 1.36 | 35.26 | 3.61 | 13.41 | 15.48 |
| 1-2 | 12.82 | 22.84 | 18.58 | 18.08 | 4.11 | 17.60 | 15.30 | 18.03 | 16.97 | 1.20 | 0.73 | 1.49 | 1.03 | 1.08 | 0.31 |
| 2-3 | 12.06 | 32.28 | 17.36 | 20.57 | 8.56 | 13.90 | 8.63 | 17.71 | 13.41 | 3.72 | 0.87 | 3.74 | 0.98 | 1.86 | 1.33 |
| 3-4 | 12.55 | 22.54 | 17.66 | 17.58 | 4.08 | 16.00 | 11.91 | 15.56 | 14.49 | 1.83 | 0.78 | 1.89 | 1.14 | 1.27 | 0.46 |
| 4-5 | 19.49 | 25.58 | 14.01 | 19.69 | 4.73 | 14.96 | 11.94 | 24.75 | 17.22 | 5.46 | 1.30 | 2.14 | 0.57 | 1.34 | 0.64 |
| 5-10 | 9.08 | | 13.83 | 11.45 | 2.38 | 7.10 | | 5.24 | 6.17 | 0.93 | 1.28 | | 2.64 | 1.96 | 0.68 |
| 10-15 | | 5.66 | 10.35 | 8.01 | 2.34 | | 4.67 | 5.15 | 5.15 | 0.24 | | 1.21 | 2.01 | 1.61 | 0.40 |
| 15-20 | 7.37 | 5.60 | 7.86 | 6.94 | 0.97 | 3.83 | 4.73 | 4.20 | 4.25 | 0.37 | 1.93 | 1.18 | 1.87 | 1.66 | 0.34 |
| 20-30 | 3.50 | 2.71 | 3.75 | 3.32 | 0.44 | 1.36 | 1.69 | 2.44 | 1.83 | 0.45 | 2.58 | 1.61 | 1.54 | 1.91 | 0.48 |
| 30-40 | 2.04 | 2.01 | 2.89 | 2.31 | 0.41 | 2.94 | 1.19 | 1.54 | 1.89 | 0.76 | 0.69 | 1.69 | 1.88 | 1.42 | 0.52 |



Table 20. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E29 located on Roberts Bank, British Columbia on June 15, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E29 | GPS | N 49.02393° | W 123.12653° | Date | Jun 15, 2003 | Time (PST) | 1500 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 14.01 | 19.79 | 18.88 | 17.56 | 2.54 | 69.65 | 48.80 | 82.31 | 66.92 | 13.82 | 0.20 | 0.41 | 0.23 | 0.28 | 0.09 |
| 1-2 | 16.14 | 14.62 | 12.49 | 14.41 | 1.50 | 57.37 | 52.74 | 52.72 | 54.28 | 2.19 | 0.28 | 0.28 | 0.24 | 0.27 | 0.02 |
| 2-3 | 12.79 | 10.35 | 15.23 | 12.79 | 1.99 | 61.95 | 38.55 | 65.05 | 55.18 | 11.83 | 0.21 | 0.27 | 0.23 | 0.24 | 0.03 |
| 3-4 | 14.31 | 10.66 | 14.31 | 13.09 | 1.72 | 54.89 | 45.63 | 71.19 | 57.24 | 10.57 | 0.26 | 0.23 | 0.20 | 0.23 | 0.02 |
| 4-5 | 12.18 | 12.79 | 18.27 | 14.41 | 2.74 | 53.03 | 53.95 | 70.93 | 59.30 | 8.23 | 0.23 | 0.24 | 0.26 | 0.24 | 0.01 |
| 5-10 | 7.74 | 4.08 | 6.33 | 6.05 | 1.51 | 21.55 | 20.46 | 23.69 | 21.90 | 1.34 | 0.36 | 0.20 | 0.27 | 0.28 | 0.07 |
| 10-15 | 6.03 | 3.23 | 5.54 | 4.93 | 1.22 | 18.82 | 13.07 | 19.68 | 17.19 | 2.93 | 0.32 | 0.25 | 0.28 | 0.28 | 0.03 |
| 15-20 | 5.91 | 5.24 | 5.97 | 5.70 | 0.33 | 17.78 | 12.91 | 18.21 | 16.30 | 2.40 | 0.33 | 0.41 | 0.33 | 0.36 | 0.04 |
| 20-30 | 2.92 | 1.98 | 1.98 | 2.29 | 0.45 | 9.01 | 8.85 | 7.71 | 8.52 | 0.58 | 0.32 | 0.22 | 0.26 | 0.27 | 0.04 |
| 30-40 | 2.83 | 1.37 | 1.40 | 1.87 | 0.68 | 4.80 | 9.43 | 7.12 | 7.11 | 1.89 | 0.59 | 0.15 | 0.20 | 0.31 | 0.20 |

Table 21. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A2 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A2 | GPS | N 49.11190° | W 123.22265° | Date | Aug 11, 2003 | Time (PST) | 0930 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 15.84 | 56.28 | 57.25 | 43.12 | 19.30 | 25.07 | 72.17 | 39.94 | 45.73 | 19.66 | 0.63 | 0.78 | 1.43 | 0.95 | 0.35 |
| 1-2 | 17.66 | 36.24 | 26.49 | 26.80 | 7.59 | 16.17 | 72.64 | 48.25 | 45.69 | 23.13 | 1.09 | 0.50 | 0.55 | 0.71 | 0.27 |
| 2-3 | 21.01 | 28.02 | 26.19 | 25.07 | 2.97 | 13.44 | 59.95 | 50.70 | 41.36 | 20.11 | 1.56 | 0.47 | 0.52 | 0.85 | 0.51 |
| 3-4 | 46.29 | 22.23 | 17.97 | 28.83 | 12.47 | 36.14 | 63.28 | 46.93 | 48.78 | 11.15 | 1.28 | 0.35 | 0.38 | 0.67 | 0.43 |
| 4-5 | 33.50 | 18.58 | 13.70 | 21.93 | 8.42 | 40.32 | 54.01 | 58.88 | 51.07 | 7.86 | 0.83 | 0.34 | 0.23 | 0.47 | 0.26 |
| 5-10 | 16.96 | 5.12 | 8.53 | 10.20 | 4.98 | 20.54 | 11.06 | 18.42 | 16.67 | 4.06 | 0.83 | 0.46 | 0.46 | 0.58 | 0.17 |
| 10-15 | 3.53 | 12.18 | 9.87 | 8.53 | 3.66 | 11.66 | 41.95 | 19.91 | 24.51 | 12.79 | 0.30 | 0.29 | 0.50 | 0.36 | 0.09 |
| 15-20 | 4.87 | 12.00 | 18.27 | 11.71 | 5.47 | 15.80 | 10.21 | 23.31 | 16.44 | 5.37 | 0.31 | 1.18 | 0.78 | 0.76 | 0.35 |
| 20-30 | 6.87 | 9.72 | 5.85 | 7.48 | 1.64 | 17.19 | 11.47 | 6.79 | 11.82 | 4.25 | 0.40 | 0.85 | 0.86 | 0.70 | 0.21 |
| 30-40 | 10.40 | 5.30 | 4.96 | 6.89 | 2.49 | 9.85 | 7.19 | 4.91 | 7.32 | 2.02 | 1.06 | 0.74 | 1.01 | 0.93 | 0.14 |

Table 22. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A3 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A3 | GPS | N 49.10980° | W 123.22623° | Date | Aug 11, 2003 | Time (PST) | 0950 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 17.97 | 31.37 | 34.11 | 27.81 | 7.05 | 15.87 | 31.38 | 27.10 | 24.78 | 6.54 | 1.13 | 1.00 | 1.26 | 1.13 | 0.11 |
| 1-2 | 36.24 | 28.02 | 38.07 | 34.11 | 4.37 | 27.43 | 23.96 | 27.76 | 26.38 | 1.72 | 1.32 | 1.17 | 1.37 | 1.29 | 0.09 |
| 2-3 | 23.75 | 23.45 | 31.06 | 26.09 | 3.52 | 17.77 | 23.30 | 20.61 | 20.56 | 2.26 | 1.34 | 1.01 | 1.51 | 1.28 | 0.21 |
| 3-4 | 23.45 | 20.10 | 30.15 | 24.57 | 4.18 | 17.15 | 13.12 | 17.83 | 16.03 | 2.08 | 1.37 | 1.53 | 1.69 | 1.53 | 0.13 |
| 4-5 | 24.06 | 25.28 | 24.67 | 24.67 | 0.50 | 11.62 | 16.25 | 16.24 | 14.70 | 2.18 | 2.07 | 1.56 | 1.52 | 1.71 | 0.25 |
| 5-10 | 9.50 | 8.28 | 6.94 | 8.24 | 1.04 | 6.86 | 8.45 | 10.16 | 8.49 | 1.35 | 1.38 | 0.98 | 0.68 | 1.02 | 0.29 |
| 10-15 | 7.67 | 8.22 | 5.60 | 7.17 | 1.13 | 9.80 | 8.20 | 6.39 | 8.13 | 1.39 | 0.78 | 1.00 | 0.88 | 0.89 | 0.09 |
| 15-20 | 8.59 | 8.47 | 7.92 | 8.32 | 0.29 | 6.11 | 8.51 | 4.63 | 6.42 | 1.60 | 1.40 | 0.99 | 1.71 | 1.37 | 0.29 |
| 20-30 | 6.49 | 4.75 | 6.36 | 5.87 | 0.79 | 2.56 | 4.75 | 3.04 | 3.45 | 0.94 | 2.54 | 1.00 | 2.09 | 1.88 | 0.65 |
| 30-40 | 4.51 | 6.55 | 3.32 | 4.79 | 1.33 | 2.38 | 3.05 | 2.31 | 2.58 | 0.33 | 1.89 | 2.15 | 1.44 | 1.83 | 0.29 |

Table 23. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A4 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A4 | GPS | N 49.10167° | W 123.24248° | Date | Aug 11, 2003 | Time (PST) | 1030 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 7.61 | 10.66 | 14.01 | 10.76 | 2.61 | 23.14 | 20.10 | 36.74 | 26.66 | 7.24 | 0.33 | 0.53 | 0.38 | 0.41 | 0.09 |
| 1-2 | 8.83 | 12.24 | 9.44 | 10.17 | 1.49 | 24.39 | 18.15 | 42.85 | 28.46 | 10.49 | 0.36 | 0.67 | 0.22 | 0.42 | 0.19 |
| 2-3 | 7.49 | 12.79 | 18.58 | 12.95 | 4.53 | 22.77 | 20.43 | 47.25 | 30.15 | 12.13 | 0.33 | 0.63 | 0.39 | 0.45 | 0.13 |
| 3-4 | 7.92 | 9.11 | 10.96 | 9.33 | 1.25 | 24.99 | 14.92 | 28.71 | 22.87 | 5.83 | 0.32 | 0.61 | 0.38 | 0.44 | 0.13 |
| 4-5 | 8.83 | 6.55 | 4.91 | 6.76 | 1.61 | 22.85 | 8.52 | 12.16 | 14.51 | 6.08 | 0.39 | 0.77 | 0.40 | 0.52 | 0.18 |
| 5-10 | 2.50 | 2.62 | 1.83 | 2.31 | 0.35 | 4.70 | 4.58 | 5.06 | 4.78 | 0.21 | 0.53 | 0.57 | 0.36 | 0.49 | 0.09 |
| 10-15 | 1.71 | 1.20 | 0.91 | 1.27 | 0.33 | 4.38 | 2.26 | 2.59 | 3.08 | 0.94 | 0.39 | 0.53 | 0.35 | 0.42 | 0.08 |
| 15-20 | 1.00 | 1.16 | 0.80 | 0.99 | 0.15 | 2.26 | 2.38 | 2.51 | 2.38 | 0.10 | 0.45 | 0.49 | 0.32 | 0.42 | 0.07 |
| 20-30 | 1.55 | 1.04 | 0.40 | 1.00 | 0.47 | 3.18 | 2.04 | 1.37 | 2.20 | 0.75 | 0.49 | 0.51 | 0.29 | 0.43 | 0.10 |
| 30-40 | 0.64 | 0.45 | 0.40 | 0.50 | 0.10 | 3.39 | 1.17 | 1.29 | 1.95 | 1.02 | 0.19 | 0.39 | 0.31 | 0.29 | 0.08 |

Table 24. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A5 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A5 | GPS | N 49.09358° | W 123.26085° | Date | Aug 11, 2003 | Time (PST) | 1250 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 10.51 | 12.91 | 14.62 | 12.68 | 1.69 | 7.46 | 10.34 | 6.91 | 8.24 | 1.50 | 1.41 | 1.25 | 2.11 | 1.59 | 0.38 |
| 1-2 | 10.14 | 12.27 | 19.19 | 13.87 | 3.86 | 8.65 | 10.40 | 11.88 | 10.31 | 1.32 | 1.17 | 1.18 | 1.61 | 1.32 | 0.21 |
| 2-3 | 11.02 | 11.57 | 16.90 | 13.17 | 2.65 | 12.60 | 9.96 | 11.86 | 11.47 | 1.11 | 0.88 | 1.16 | 1.43 | 1.15 | 0.22 |
| 3-4 | 6.24 | 9.90 | 13.55 | 9.90 | 2.98 | 7.48 | 9.88 | 9.98 | 9.11 | 1.15 | 0.83 | 1.00 | 1.36 | 1.06 | 0.22 |
| 4-5 | 4.83 | 9.01 | 7.08 | 6.98 | 1.71 | 4.43 | 13.25 | 8.11 | 8.60 | 3.62 | 1.09 | 0.68 | 0.87 | 0.88 | 0.17 |
| 5-10 | 2.50 | 2.98 | 3.78 | 3.09 | 0.53 | 5.07 | 7.53 | 6.56 | 6.39 | 1.01 | 0.49 | 0.40 | 0.58 | 0.49 | 0.07 |
| 10-15 | 1.69 | 2.08 | 2.38 | 2.05 | 0.28 | 4.29 | 3.87 | 4.08 | 4.08 | 0.17 | 0.40 | 0.54 | 0.58 | 0.50 | 0.08 |
| 15-20 | 1.83 | 1.07 | 1.89 | 1.60 | 0.37 | 4.82 | 2.01 | 6.11 | 4.31 | 1.71 | 0.38 | 0.53 | 0.31 | 0.41 | 0.09 |
| 20-30 | 0.97 | 0.54 | 1.37 | 0.96 | 0.34 | 2.59 | 1.03 | 3.46 | 2.36 | 1.00 | 0.38 | 0.52 | 0.40 | 0.43 | 0.07 |
| 30-40 | 0.49 | 1.08 | 1.28 | 0.95 | 0.33 | 1.00 | 1.58 | 2.90 | 1.83 | 0.80 | 0.49 | 0.68 | 0.44 | 0.54 | 0.10 |

Table 25. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A6 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A6 | GPS | N 49.08555° | W 123.28115° | Date | Aug 11, 2003 | Time (PST) | 1230 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 0.91 | 2.06 | 1.87 | 1.61 | 0.50 | 2.97 | 1.94 | 7.05 | 3.99 | 2.21 | 0.31 | 1.06 | 0.26 | 0.54 | 0.36 |
| 1-2 | 1.75 | 1.68 | 2.21 | 1.88 | 0.23 | 5.86 | 1.54 | 8.40 | 5.27 | 2.83 | 0.30 | 1.09 | 0.26 | 0.55 | 0.38 |
| 2-3 | 2.36 | 1.77 | 2.13 | 2.09 | 0.24 | 7.67 | 1.79 | 8.48 | 5.98 | 2.98 | 0.31 | 0.99 | 0.25 | 0.52 | 0.34 |
| 3-4 | 1.79 | 1.42 | 1.64 | 1.62 | 0.15 | 5.29 | 1.75 | 5.63 | 4.22 | 1.75 | 0.34 | 0.81 | 0.29 | 0.48 | 0.24 |
| 4-5 | 0.94 | 1.00 | 0.84 | 0.93 | 0.07 | 2.76 | 1.98 | 1.94 | 2.23 | 0.38 | 0.34 | 0.51 | 0.43 | 0.43 | 0.07 |
| 5-10 | 0.28 | 0.23 | 0.27 | 0.26 | 0.02 | 0.94 | 0.97 | 1.16 | 1.03 | 0.10 | 0.30 | 0.24 | 0.24 | 0.26 | 0.03 |
| 10-15 | 0.26 | 0.20 | 0.17 | 0.21 | 0.04 | 0.95 | 0.71 | 0.51 | 0.72 | 0.18 | 0.27 | 0.28 | 0.33 | 0.29 | 0.02 |
| 15-20 | 0.18 | 0.18 | 0.15 | 0.17 | 0.01 | 0.72 | 0.69 | 0.46 | 0.62 | 0.12 | 0.24 | 0.26 | 0.32 | 0.28 | 0.03 |
| 20-30 | 0.09 | 0.10 | 0.08 | 0.09 | 0.01 | 0.40 | 0.44 | 0.23 | 0.35 | 0.09 | 0.22 | 0.23 | 0.34 | 0.26 | 0.05 |
| 30-40 | 0.07 | 0.08 | 0.08 | 0.08 | 0.00 | 0.25 | 0.37 | 0.22 | 0.28 | 0.07 | 0.30 | 0.21 | 0.38 | 0.30 | 0.07 |

Table 26. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B10 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B10 | GPS | N 49.07933° | W 123.19400° | Date | Aug 12, 2003 | Time (PST) | 0845 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 23.66 | 17.48 | 23.45 | 21.53 | 2.87 | 27.37 | 19.34 | 19.83 | 22.18 | 3.67 | 0.86 | 0.90 | 1.18 | 0.98 | 0.14 |
| 1-2 | 30.27 | 24.30 | 30.27 | 28.28 | 2.81 | 25.92 | 23.50 | 20.54 | 23.32 | 2.20 | 1.17 | 1.03 | 1.47 | 1.23 | 0.18 |
| 2-3 | 41.36 | 32.40 | 35.81 | 36.52 | 3.69 | 24.96 | 22.50 | 25.98 | 24.48 | 1.46 | 1.66 | 1.44 | 1.38 | 1.49 | 0.12 |
| 3-4 | 46.47 | 38.16 | 32.62 | 39.08 | 5.69 | 18.55 | 23.63 | 19.92 | 20.70 | 2.15 | 2.51 | 1.61 | 1.64 | 1.92 | 0.41 |
| 4-5 | 37.09 | 40.72 | 38.80 | 38.87 | 1.48 | 12.43 | 20.86 | 15.46 | 16.25 | 3.49 | 2.98 | 1.95 | 2.51 | 2.48 | 0.42 |
| 5-10 | 22.85 | 8.87 | 20.81 | 17.51 | 6.17 | 7.81 | 5.13 | 8.82 | 7.25 | 1.56 | 2.93 | 1.73 | 2.36 | 2.34 | 0.49 |
| 10-15 | 20.09 | 12.48 | 22.31 | 18.29 | 4.21 | 7.16 | 14.87 | 7.18 | 9.74 | 3.63 | 2.81 | 0.84 | 3.11 | 2.25 | 1.01 |
| 15-20 | 15.89 | 17.84 | 23.77 | 19.17 | 3.35 | 5.95 | 5.14 | 6.99 | 6.03 | 0.76 | 2.67 | 3.47 | 3.40 | 3.18 | 0.36 |
| 20-30 | 8.75 | 10.08 | 10.52 | 9.78 | 0.75 | 2.91 | 3.34 | 3.14 | 3.13 | 0.17 | 3.00 | 3.02 | 3.35 | 3.13 | 0.16 |
| 30-40 | 7.21 | 9.86 | 6.99 | 8.02 | 1.30 | 2.90 | 3.27 | 2.89 | 3.02 | 0.18 | 2.49 | 3.02 | 2.42 | 2.64 | 0.27 |

Table 27. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B11 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B11 | GPS | N 49.07055° | W 123.21350° | Date | Aug 11, 2003 | Time (PST) | 1050 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 5.94 | 10.93 | 10.51 | 9.13 | 2.26 | 14.73 | 13.40 | 9.64 | 12.59 | 2.16 | 0.40 | 0.82 | 1.09 | 0.77 | 0.28 |
| 1-2 | 10.63 | 8.41 | 9.48 | 9.51 | 0.90 | 10.93 | 6.54 | 6.02 | 7.83 | 2.20 | 0.97 | 1.29 | 1.58 | 1.28 | 0.25 |
| 2-3 | 8.15 | 10.96 | 9.48 | 9.53 | 1.15 | 6.00 | 12.41 | 5.25 | 7.89 | 3.21 | 1.36 | 0.88 | 1.81 | 1.35 | 0.38 |
| 3-4 | 8.57 | 11.48 | 11.33 | 10.46 | 1.34 | 5.08 | 18.45 | 8.60 | 10.71 | 5.66 | 1.68 | 0.62 | 1.32 | 1.21 | 0.44 |
| 4-5 | 7.12 | 6.89 | 8.11 | 7.37 | 0.53 | 3.34 | 6.37 | 5.16 | 4.96 | 1.25 | 2.13 | 1.08 | 1.57 | 1.60 | 0.43 |
| 5-10 | 3.26 | 3.78 | 4.39 | 3.81 | 0.46 | 2.68 | 4.10 | 4.41 | 3.73 | 0.75 | 1.22 | 0.92 | 0.99 | 1.04 | 0.13 |
| 10-15 | 2.74 | 3.39 | 3.17 | 3.10 | 0.27 | 2.92 | 2.61 | 4.09 | 3.21 | 0.64 | 0.94 | 1.30 | 0.77 | 1.00 | 0.22 |
| 15-20 | 2.52 | 3.19 | 2.85 | 2.85 | 0.27 | 2.63 | 2.21 | 2.82 | 2.55 | 0.26 | 0.96 | 1.44 | 1.01 | 1.14 | 0.22 |
| 20-30 | 1.34 | 1.39 | 1.23 | 1.32 | 0.07 | 2.01 | 1.20 | 1.41 | 1.54 | 0.34 | 0.67 | 1.16 | 0.87 | 0.90 | 0.20 |
| 30-40 | 1.43 | 1.26 | 1.05 | 1.25 | 0.16 | 1.71 | 1.09 | 1.12 | 1.30 | 0.28 | 0.84 | 1.16 | 0.94 | 0.98 | 0.13 |



Table 28. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B12 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B12 | GPS | N 49.06262° | W 123.22867° | Date | Aug 11, 2003 | Time (PST) | 1120 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 4.72 | 7.12 | 4.61 | 5.48 | 1.16 | 3.05 | 6.15 | 11.20 | 6.80 | 3.36 | 1.55 | 1.16 | 0.41 | 1.04 | 0.47 |
| 1-2 | 3.35 | 6.81 | 6.21 | 5.46 | 1.51 | 2.26 | 8.10 | 22.27 | 10.88 | 8.40 | 1.48 | 0.84 | 0.28 | 0.87 | 0.49 |
| 2-3 | 4.45 | 5.29 | 3.77 | 4.50 | 0.62 | 6.35 | 8.70 | 14.26 | 9.77 | 3.32 | 0.70 | 0.61 | 0.26 | 0.52 | 0.19 |
| 3-4 | 4.38 | 3.58 | 3.96 | 3.97 | 0.33 | 9.73 | 5.19 | 10.57 | 8.50 | 2.37 | 0.45 | 0.69 | 0.37 | 0.50 | 0.13 |
| 4-5 | 3.50 | 3.05 | 2.74 | 3.10 | 0.31 | 9.76 | 3.68 | 10.91 | 8.12 | 3.17 | 0.36 | 0.83 | 0.25 | 0.48 | 0.25 |
| 5-10 | 1.58 | 0.72 | 1.16 | 1.15 | 0.35 | 4.63 | 0.95 | 5.61 | 3.73 | 2.00 | 0.34 | 0.75 | 0.21 | 0.43 | 0.23 |
| 10-15 | 0.88 | 0.60 | 0.75 | 0.75 | 0.12 | 1.49 | 0.97 | 1.87 | 1.44 | 0.37 | 0.59 | 0.62 | 0.40 | 0.54 | 0.10 |
| 15-20 | 0.63 | 0.59 | 0.60 | 0.61 | 0.02 | 1.04 | 1.28 | 1.34 | 1.22 | 0.13 | 0.61 | 0.46 | 0.45 | 0.51 | 0.07 |
| 20-30 | 0.27 | 0.32 | 0.28 | 0.29 | 0.02 | 0.79 | 0.92 | 1.73 | 1.15 | 0.41 | 0.35 | 0.35 | 0.16 | 0.29 | 0.09 |
| 30-40 | 0.23 | 0.29 | 0.28 | 0.27 | 0.03 | 0.47 | 0.93 | 1.61 | 1.00 | 0.47 | 0.50 | 0.32 | 0.18 | 0.33 | 0.13 |

Table 29. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B13 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B13 | GPS | N 49.05370° | W 123.24553° | Date | Aug 11, 2003 | Time (PST) | 1310 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 14.43 | 8.22 | 2.78 | 8.48 | 4.76 | 6.05 | 2.85 | 3.33 | 4.08 | 1.41 | 2.39 | 2.88 | 0.83 | 2.03 | 0.87 |
| 1-2 | 7.58 | 9.78 | 2.78 | 6.71 | 2.92 | 4.23 | 3.25 | 3.14 | 3.54 | 0.49 | 1.79 | 3.01 | 0.88 | 1.90 | 0.87 |
| 2-3 | 4.68 | 6.09 | 3.27 | 4.68 | 1.15 | 4.05 | 2.79 | 3.49 | 3.44 | 0.51 | 1.16 | 2.18 | 0.94 | 1.43 | 0.54 |
| 3-4 | 4.07 | 5.25 | 2.66 | 4.00 | 1.06 | 4.35 | 3.67 | 4.79 | 4.27 | 0.46 | 0.94 | 1.43 | 0.56 | 0.98 | 0.36 |
| 4-5 | 3.43 | 4.64 | 1.90 | 3.32 | 1.12 | 3.26 | 3.97 | 2.33 | 3.19 | 0.67 | 1.05 | 1.17 | 0.82 | 1.01 | 0.15 |
| 5-10 | 0.93 | 2.98 | 0.71 | 1.54 | 1.03 | 1.66 | 5.44 | 1.97 | 3.02 | 1.71 | 0.56 | 0.55 | 0.36 | 0.49 | 0.09 |
| 10-15 | 0.42 | 2.13 | 0.47 | 1.01 | 0.80 | 1.52 | 5.62 | 2.04 | 3.06 | 1.82 | 0.28 | 0.38 | 0.23 | 0.30 | 0.06 |
| 15-20 | 0.31 | 1.71 | 0.31 | 0.78 | 0.66 | 1.18 | 5.49 | 1.50 | 2.72 | 1.96 | 0.26 | 0.31 | 0.21 | 0.26 | 0.04 |
| 20-30 | 0.12 | 0.70 | 0.14 | 0.32 | 0.27 | 0.60 | 2.18 | 0.69 | 1.16 | 0.73 | 0.20 | 0.32 | 0.20 | 0.24 | 0.06 |
| 30-40 | 0.11 | 0.19 | 0.12 | 0.14 | 0.03 | 0.43 | 0.69 | 0.56 | 0.56 | 0.11 | 0.27 | 0.27 | 0.21 | 0.25 | 0.03 |

Table 30. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B14 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B14 | GPS | N 49.04615° | W 123.26015° | Date | Aug 11, 2003 | Time (PST) | 1200 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 3.39 | 1.42 | 1.25 | 2.02 | 0.97 | 1.46 | 1.25 | 0.90 | 1.20 | 0.23 | 2.33 | 1.14 | 1.40 | 1.62 | 0.51 |
| 1-2 | 2.70 | 1.17 | 0.83 | 1.57 | 0.82 | 1.33 | 1.01 | 0.77 | 1.04 | 0.23 | 2.03 | 1.16 | 1.07 | 1.42 | 0.43 |
| 2-3 | 2.55 | 0.97 | 0.68 | 1.40 | 0.82 | 1.41 | 1.04 | 0.75 | 1.07 | 0.27 | 1.81 | 0.93 | 0.90 | 1.21 | 0.42 |
| 3-4 | 1.73 | 0.75 | 0.59 | 1.02 | 0.50 | 1.52 | 0.88 | 0.89 | 1.10 | 0.30 | 1.13 | 0.85 | 0.66 | 0.88 | 0.19 |
| 4-5 | 0.98 | 0.64 | 0.51 | 0.71 | 0.20 | 1.62 | 0.91 | 0.84 | 1.12 | 0.35 | 0.60 | 0.71 | 0.61 | 0.64 | 0.05 |
| 5-10 | 0.33 | 0.35 | 0.25 | 0.31 | 0.04 | 0.80 | 0.86 | 0.94 | 0.87 | 0.06 | 0.41 | 0.41 | 0.27 | 0.36 | 0.07 |
| 10-15 | 0.18 | 0.22 | 0.19 | 0.20 | 0.02 | 0.40 | 0.65 | 1.10 | 0.72 | 0.29 | 0.45 | 0.34 | 0.17 | 0.32 | 0.11 |
| 15-20 | 0.16 | 0.15 | 0.15 | 0.15 | 0.00 | 0.46 | 0.40 | 0.42 | 0.42 | 0.03 | 0.35 | 0.39 | 0.36 | 0.37 | 0.02 |
| 20-30 | 0.08 | 0.08 | 0.08 | 0.08 | 0.00 | 0.26 | 0.31 | 0.34 | 0.30 | 0.03 | 0.29 | 0.25 | 0.23 | 0.26 | 0.03 |
| 30-40 | 0.06 | 0.06 | 0.06 | 0.06 | 0.00 | 0.25 | 0.22 | 0.26 | 0.24 | 0.02 | 0.25 | 0.29 | 0.22 | 0.26 | 0.03 |

Table 31. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C16 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C16 | GPS | N 49.05273° | W 123.15477° | Date | Aug 11, 2003 | Time (PST) | 1500 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 33.19 | 37.76 | 26.19 | 32.38 | 4.76 | 19.71 | 17.91 | 16.26 | 17.96 | 1.41 | 1.68 | 2.11 | 1.61 | 1.80 | 0.22 |
| 1-2 | 44.16 | 50.86 | 41.11 | 45.38 | 4.07 | 27.51 | 30.04 | 20.40 | 25.98 | 4.08 | 1.61 | 1.69 | 2.01 | 1.77 | 0.18 |
| 2-3 | 42.03 | 37.15 | 43.55 | 40.91 | 2.73 | 21.95 | 28.05 | 23.50 | 24.50 | 2.59 | 1.91 | 1.32 | 1.85 | 1.70 | 0.26 |
| 3-4 | 35.63 | 37.76 | 34.41 | 35.93 | 1.38 | 19.12 | 22.83 | 17.88 | 19.94 | 2.10 | 1.86 | 1.65 | 1.93 | 1.81 | 0.12 |
| 4-5 | 20.10 | 27.10 | 28.32 | 25.17 | 3.62 | 13.73 | 19.96 | 22.43 | 18.71 | 3.66 | 1.46 | 1.36 | 1.26 | 1.36 | 0.08 |
| 5-10 | 9.62 | 7.19 | 8.59 | 8.47 | 1.00 | 6.86 | 4.99 | 5.62 | 5.83 | 0.78 | 1.40 | 1.44 | 1.53 | 1.46 | 0.05 |
| 10-15 | 5.54 | 4.99 | 6.52 | 5.68 | 0.63 | 4.55 | 4.05 | 4.13 | 4.24 | 0.22 | 1.22 | 1.23 | 1.58 | 1.34 | 0.17 |
| 15-20 | 4.02 | 5.80 | 6.21 | 5.28 | 0.92 | 4.53 | 4.85 | 4.06 | 4.48 | 0.33 | 0.89 | 1.15 | 1.53 | 1.19 | 0.26 |
| 20-30 | 1.71 | 2.01 | 3.17 | 2.29 | 0.63 | 2.05 | 2.23 | 2.37 | 2.22 | 0.13 | 0.83 | 0.90 | 1.34 | 1.02 | 0.22 |
| 30-40 | 1.43 | 1.55 | 2.98 | 1.99 | 0.71 | 2.14 | 2.11 | 2.37 | 2.20 | 0.12 | 0.67 | 0.74 | 1.26 | 0.89 | 0.26 |



Table 32. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C17 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C17 | GPS | N 49.04830° | W 123.16345° | Date | Aug 11, 2003 | Time (PST) | 1420 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 18.88 | 20.40 | 22.84 | 20.71 | 1.63 | 12.80 | 30.35 | 15.30 | 19.48 | 7.75 | 1.48 | 0.67 | 1.49 | 1.21 | 0.38 |
| 1-2 | 16.14 | 14.92 | 18.27 | 16.44 | 1.38 | 17.69 | 21.68 | 18.95 | 19.44 | 1.66 | 0.91 | 0.69 | 0.96 | 0.85 | 0.12 |
| 2-3 | 13.31 | 18.88 | 17.97 | 16.72 | 2.44 | 13.85 | 22.64 | 23.86 | 20.12 | 4.46 | 0.96 | 0.83 | 0.75 | 0.85 | 0.09 |
| 3-4 | 13.76 | 16.14 | 21.62 | 17.18 | 3.29 | 14.16 | 19.85 | 26.67 | 20.23 | 5.11 | 0.97 | 0.81 | 0.81 | 0.87 | 0.08 |
| 4-5 | 17.36 | 14.92 | 15.53 | 15.94 | 1.04 | 13.40 | 17.07 | 22.30 | 17.59 | 3.65 | 1.30 | 0.87 | 0.70 | 0.96 | 0.25 |
| 5-10 | 4.02 | 4.14 | 3.47 | 3.88 | 0.29 | 6.93 | 7.85 | 7.72 | 7.50 | 0.41 | 0.58 | 0.53 | 0.45 | 0.52 | 0.05 |
| 10-15 | 3.05 | 4.57 | 4.63 | 4.08 | 0.73 | 5.32 | 7.30 | 7.00 | 6.54 | 0.87 | 0.57 | 0.63 | 0.66 | 0.62 | 0.04 |
| 15-20 | 5.18 | 4.32 | 4.32 | 4.61 | 0.40 | 5.03 | 6.19 | 6.01 | 5.75 | 0.51 | 1.03 | 0.70 | 0.72 | 0.82 | 0.15 |
| 20-30 | 2.77 | 2.71 | 2.07 | 2.52 | 0.32 | 3.10 | 4.12 | 3.28 | 3.50 | 0.44 | 0.89 | 0.66 | 0.63 | 0.73 | 0.12 |
| 30-40 | 2.34 | 3.11 | 2.44 | 2.63 | 0.34 | 2.91 | 4.37 | 2.58 | 3.29 | 0.78 | 0.80 | 0.71 | 0.95 | 0.82 | 0.10 |

Table 33. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C18 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C18 | GPS | N 49.04122° | W 123.17783° | Date | Aug 11, 2003 | Time (PST) | 1350 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 4.49 | 4.64 | 3.81 | 4.31 | 0.36 | 8.66 | 14.31 | 13.34 | 12.10 | 2.47 | 0.52 | 0.32 | 0.29 | 0.38 | 0.10 |
| 1-2 | 4.30 | 4.07 | 3.96 | 4.11 | 0.14 | 7.39 | 12.31 | 11.07 | 10.26 | 2.09 | 0.58 | 0.33 | 0.36 | 0.42 | 0.11 |
| 2-3 | 4.34 | 5.44 | 4.11 | 4.63 | 0.58 | 7.81 | 12.63 | 10.88 | 10.44 | 1.99 | 0.56 | 0.43 | 0.38 | 0.45 | 0.07 |
| 3-4 | 4.91 | 4.45 | 4.00 | 4.45 | 0.37 | 8.74 | 7.89 | 13.73 | 10.12 | 2.58 | 0.56 | 0.56 | 0.29 | 0.47 | 0.13 |
| 4-5 | 4.61 | 3.39 | 3.62 | 3.87 | 0.53 | 10.66 | 6.57 | 16.30 | 11.18 | 3.99 | 0.43 | 0.52 | 0.22 | 0.39 | 0.12 |
| 5-10 | 2.13 | 2.19 | 2.13 | 2.15 | 0.03 | 5.62 | 8.51 | 8.08 | 7.40 | 1.27 | 0.38 | 0.26 | 0.26 | 0.30 | 0.06 |
| 10-15 | 1.77 | 2.07 | 1.83 | 1.89 | 0.13 | 4.88 | 10.54 | 4.88 | 6.77 | 2.67 | 0.36 | 0.20 | 0.37 | 0.31 | 0.08 |
| 15-20 | 1.08 | 1.83 | 1.83 | 1.58 | 0.35 | 2.84 | 7.77 | 5.00 | 5.20 | 2.02 | 0.38 | 0.24 | 0.37 | 0.33 | 0.07 |
| 20-30 | 0.49 | 0.79 | 0.82 | 0.70 | 0.15 | 1.46 | 3.45 | 3.24 | 2.72 | 0.89 | 0.34 | 0.23 | 0.25 | 0.27 | 0.05 |
| 30-40 | 0.46 | 0.51 | 0.79 | 0.59 | 0.15 | 1.57 | 1.45 | 2.87 | 1.97 | 0.64 | 0.30 | 0.35 | 0.28 | 0.31 | 0.03 |

Table 34. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C19 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C19 | GPS | N 49.03173° | W 123.19428° | Date | Aug 12, 2003 | Time (PST) | 1220 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 19.00 | 31.37 | 8.53 | 19.63 | 9.34 | 0.56 | 6.77 | 4.74 | 4.02 | 2.59 | 33.99 | 4.63 | 1.80 | 13.47 | 14.55 |
| 1-2 | 10.16 | 17.51 | 4.72 | 10.80 | 5.24 | 4.22 | 5.71 | 3.47 | 4.47 | 0.93 | 2.41 | 3.07 | 1.36 | 2.28 | 0.70 |
| 2-3 | 7.16 | 15.01 | 5.56 | 9.24 | 4.13 | 3.57 | 6.12 | 3.90 | 4.53 | 1.13 | 2.00 | 2.45 | 1.42 | 1.96 | 0.42 |
| 3-4 | 8.41 | 8.45 | 4.04 | 6.97 | 2.07 | 5.27 | 4.16 | 3.04 | 4.16 | 0.91 | 1.59 | 2.03 | 1.33 | 1.65 | 0.29 |
| 4-5 | 7.69 | 6.28 | 4.11 | 6.03 | 1.47 | 4.77 | 3.79 | 3.62 | 4.06 | 0.51 | 1.61 | 1.66 | 1.14 | 1.47 | 0.24 |
| 5-10 | 1.44 | 1.27 | 1.04 | 1.25 | 0.16 | 1.58 | 1.57 | 1.86 | 1.67 | 0.13 | 0.91 | 0.81 | 0.56 | 0.76 | 0.15 |
| 10-15 | 0.92 | 1.06 | 0.97 | 0.98 | 0.06 | 1.79 | 2.09 | 1.98 | 1.95 | 0.12 | 0.51 | 0.51 | 0.49 | 0.50 | 0.01 |
| 15-20 | 0.97 | 1.04 | 1.74 | 1.25 | 0.34 | 1.99 | 1.85 | 3.77 | 2.54 | 0.87 | 0.49 | 0.56 | 0.46 | 0.50 | 0.04 |
| 20-30 | 0.52 | 0.49 | 0.43 | 0.48 | 0.04 | 0.75 | 0.85 | 0.93 | 0.84 | 0.08 | 0.70 | 0.58 | 0.46 | 0.58 | 0.10 |
| 30-40 | 0.46 | 0.50 | 0.35 | 0.44 | 0.06 | 0.62 | 0.65 | 0.66 | 0.64 | 0.02 | 0.75 | 0.78 | 0.53 | 0.68 | 0.11 |

Table 35. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D20 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D20 | GPS | N 49.04205° | W 123.11592° | Date | Aug 12, 2003 | Time (PST) | 0915 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 40.50 | 30.15 | 24.67 | 31.77 | 6.57 | 7.48 | 14.14 | 12.55 | 11.39 | 2.84 | 5.42 | 2.13 | 1.97 | 3.17 | 1.59 |
| 1-2 | 42.63 | 35.93 | 31.98 | 36.85 | 4.40 | 11.50 | 16.97 | 11.09 | 13.18 | 2.68 | 3.71 | 2.12 | 2.88 | 2.90 | 0.65 |
| 2-3 | 28.32 | 24.06 | 19.31 | 23.90 | 3.68 | 2.74 | 11.01 | 7.33 | 7.03 | 3.38 | 10.32 | 2.19 | 2.63 | 5.05 | 3.73 |
| 3-4 | 18.27 | 21.93 | 17.51 | 19.24 | 1.93 | 14.95 | 12.83 | 7.25 | 11.68 | 3.25 | 1.22 | 1.71 | 2.42 | 1.78 | 0.49 |
| 4-5 | 11.82 | 16.81 | 11.18 | 13.27 | 2.52 | 8.24 | 10.50 | 9.83 | 9.52 | 0.95 | 1.43 | 1.60 | 1.14 | 1.39 | 0.19 |
| 5-10 | 5.85 | 7.49 | 3.23 | 5.52 | 1.76 | 4.55 | 5.67 | 4.28 | 4.83 | 0.60 | 1.29 | 1.32 | 0.75 | 1.12 | 0.26 |
| 10-15 | 3.84 | 5.60 | 3.05 | 4.16 | 1.07 | 3.98 | 4.73 | 4.46 | 4.39 | 0.31 | 0.97 | 1.18 | 0.68 | 0.94 | 0.21 |
| 15-20 | 4.14 | 4.39 | 1.96 | 3.50 | 1.09 | 3.42 | 4.78 | 3.13 | 3.78 | 0.72 | 1.21 | 0.92 | 0.63 | 0.92 | 0.24 |
| 20-30 | 2.41 | 2.34 | 1.34 | 2.03 | 0.49 | 1.19 | 2.64 | 2.60 | 2.14 | 0.67 | 2.02 | 0.89 | 0.52 | 1.14 | 0.64 |
| 30-40 | 1.55 | 1.19 | 1.25 | 1.33 | 0.16 | 1.58 | 2.47 | 2.50 | 2.19 | 0.43 | 0.98 | 0.48 | 0.50 | 0.65 | 0.23 |

Table 36. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D21 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D21 | GPS | N 49.03963° | W 123.11993° | Date | Aug 12, 2003 | Time (PST) | 1115 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 26.80 | 22.23 | 23.75 | 24.26 | 1.90 | 13.49 | 19.60 | 14.39 | 15.83 | 2.69 | 1.99 | 1.13 | 1.65 | 1.59 | 0.35 |
| 1-2 | 36.24 | 23.45 | 21.01 | 26.90 | 6.68 | 25.58 | 23.61 | 15.28 | 21.49 | 4.46 | 1.42 | 0.99 | 1.38 | 1.26 | 0.19 |
| 2-3 | 10.02 | 19.49 | 21.01 | 16.84 | 4.86 | 14.31 | 19.26 | 17.74 | 17.11 | 2.07 | 0.70 | 1.01 | 1.18 | 0.97 | 0.20 |
| 3-4 | 6.55 | 16.14 | 16.14 | 12.94 | 4.52 | 11.02 | 19.85 | 17.08 | 15.98 | 3.68 | 0.59 | 0.81 | 0.95 | 0.78 | 0.14 |
| 4-5 | 4.49 | 11.30 | 10.05 | 8.61 | 2.96 | 9.08 | 17.89 | 13.02 | 13.33 | 3.60 | 0.49 | 0.63 | 0.77 | 0.63 | 0.11 |
| 5-10 | 1.95 | 3.11 | 4.45 | 3.17 | 1.02 | 5.43 | 7.29 | 7.80 | 6.84 | 1.02 | 0.36 | 0.43 | 0.57 | 0.45 | 0.09 |
| 10-15 | 2.86 | 2.68 | 1.89 | 2.48 | 0.42 | 6.30 | 7.84 | 6.05 | 6.73 | 0.79 | 0.45 | 0.34 | 0.31 | 0.37 | 0.06 |
| 15-20 | 1.95 | 2.01 | 2.62 | 2.19 | 0.30 | 6.66 | 7.22 | 6.30 | 6.73 | 0.38 | 0.29 | 0.28 | 0.42 | 0.33 | 0.06 |
| 20-30 | 0.91 | 0.97 | 1.07 | 0.98 | 0.06 | 2.99 | 3.21 | 3.02 | 3.08 | 0.10 | 0.31 | 0.30 | 0.35 | 0.32 | 0.02 |
| 30-40 | 0.67 | 0.79 | 1.04 | 0.83 | 0.15 | 2.90 | 2.81 | 2.84 | 2.85 | 0.04 | 0.23 | 0.28 | 0.36 | 0.29 | 0.05 |

Table 37. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D22 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D22 | GPS | N 49.03707° | W 123.12370° | Date | Aug 12, 2003 | Time (PST) | 1145 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 29.24 | 50.55 | 46.59 | 42.13 | 9.26 | 16.59 | 25.11 | 28.15 | 23.28 | 4.89 | 1.76 | 2.01 | 1.66 | 1.81 | 0.15 |
| 1-2 | 38.37 | 39.28 | 36.85 | 38.17 | 1.00 | 25.61 | 26.23 | 26.82 | 26.22 | 0.50 | 1.50 | 1.50 | 1.37 | 1.46 | 0.06 |
| 2-3 | 39.59 | 29.54 | 28.63 | 32.59 | 4.97 | 27.46 | 23.67 | 23.35 | 24.83 | 1.87 | 1.44 | 1.25 | 1.23 | 1.31 | 0.10 |
| 3-4 | 23.14 | 21.62 | 27.41 | 24.06 | 2.45 | 22.07 | 19.29 | 22.42 | 21.26 | 1.40 | 1.05 | 1.12 | 1.22 | 1.13 | 0.07 |
| 4-5 | 31.37 | 17.66 | 21.01 | 23.35 | 5.83 | 8.62 | 14.63 | 19.59 | 14.28 | 4.49 | 3.64 | 1.21 | 1.07 | 1.97 | 1.18 |
| 5-10 | 6.70 | 8.77 | 7.98 | 7.82 | 0.85 | 10.96 | 11.22 | 10.35 | 10.84 | 0.36 | 0.61 | 0.78 | 0.77 | 0.72 | 0.08 |
| 10-15 | 6.40 | 6.82 | 7.25 | 6.82 | 0.35 | 12.24 | 13.11 | 10.22 | 11.86 | 1.21 | 0.52 | 0.52 | 0.71 | 0.58 | 0.09 |
| 15-20 | 4.81 | 6.27 | 7.49 | 6.19 | 1.10 | 12.17 | 12.61 | 9.86 | 11.54 | 1.21 | 0.40 | 0.50 | 0.76 | 0.55 | 0.15 |
| 20-30 | 2.34 | 3.17 | 3.01 | 2.84 | 0.36 | 7.19 | 6.06 | 6.46 | 6.57 | 0.47 | 0.33 | 0.52 | 0.47 | 0.44 | 0.08 |
| 30-40 | 2.47 | 2.95 | 2.28 | 2.57 | 0.28 | 8.21 | 7.72 | 5.81 | 7.24 | 1.04 | 0.30 | 0.38 | 0.39 | 0.36 | 0.04 |



Table 38. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D23 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D23 | GPS | N 49.03352° | W 123.12878° | Date | Aug 12, 2003 | Time (PST) | 1350 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 17.97 | 23.75 | 26.80 | 22.84 | 3.66 | 30.63 | 27.92 | 28.26 | 28.94 | 1.21 | 0.59 | 0.85 | 0.95 | 0.80 | 0.15 |
| 1-2 | 17.97 | 26.49 | 16.44 | 20.30 | 4.42 | 28.78 | 27.33 | 31.54 | 29.22 | 1.74 | 0.62 | 0.97 | 0.52 | 0.71 | 0.19 |
| 2-3 | 24.67 | 20.40 | 12.49 | 19.19 | 5.05 | 14.09 | 26.35 | 37.34 | 25.93 | 9.50 | 1.75 | 0.77 | 0.33 | 0.95 | 0.59 |
| 3-4 | 8.83 | 16.14 | 11.88 | 12.28 | 3.00 | 24.08 | 31.53 | 36.72 | 30.78 | 5.19 | 0.37 | 0.51 | 0.32 | 0.40 | 0.08 |
| 4-5 | 8.53 | 12.79 | 7.92 | 9.75 | 2.17 | 29.00 | 31.19 | 25.61 | 28.60 | 2.30 | 0.29 | 0.41 | 0.31 | 0.34 | 0.05 |
| 5-10 | 2.92 | 4.20 | 2.56 | 3.23 | 0.71 | 12.70 | 13.94 | 13.13 | 13.26 | 0.52 | 0.23 | 0.30 | 0.19 | 0.24 | 0.04 |
| 10-15 | 2.50 | 3.05 | 2.31 | 2.62 | 0.31 | 9.81 | 10.06 | 9.19 | 9.68 | 0.36 | 0.25 | 0.30 | 0.25 | 0.27 | 0.02 |
| 15-20 | 1.77 | 2.62 | 1.89 | 2.09 | 0.38 | 7.89 | 8.45 | 6.54 | 7.63 | 0.80 | 0.22 | 0.31 | 0.29 | 0.27 | 0.04 |
| 20-30 | 1.10 | 1.22 | 1.07 | 1.13 | 0.07 | 4.38 | 3.52 | 4.13 | 4.01 | 0.36 | 0.25 | 0.35 | 0.26 | 0.28 | 0.04 |
| 30-40 | 1.13 | 0.85 | 1.25 | 1.08 | 0.17 | 3.89 | 4.01 | 5.55 | 4.48 | 0.76 | 0.29 | 0.21 | 0.23 | 0.24 | 0.03 |

Table 39. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D24 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D24 | GPS | N 49.02997° | W 123.13472° | Date | Aug 12, 2003 | Time (PST) | 1325 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 7.61 | 13.09 | 19.49 | 13.40 | 4.85 | 43.75 | 98.86 | 85.09 | 75.90 | 23.42 | 0.17 | 0.13 | 0.23 | 0.18 | 0.04 |
| 1-2 | 9.14 | 9.14 | 8.53 | 8.93 | 0.29 | 51.46 | 84.68 | 64.06 | 66.73 | 13.69 | 0.18 | 0.11 | 0.13 | 0.14 | 0.03 |
| 2-3 | 9.75 | 8.53 | 10.66 | 9.64 | 0.87 | 65.30 | 104.35 | 86.23 | 85.30 | 15.96 | 0.15 | 0.08 | 0.12 | 0.12 | 0.03 |
| 3-4 | 11.88 | 7.92 | 14.62 | 11.47 | 2.75 | 78.24 | 88.66 | 89.96 | 85.62 | 5.24 | 0.15 | 0.09 | 0.16 | 0.13 | 0.03 |
| 4-5 | 14.01 | 9.14 | 12.18 | 11.78 | 2.01 | 127.17 | 80.68 | 103.16 | 103.67 | 18.98 | 0.11 | 0.11 | 0.12 | 0.11 | 0.00 |
| 5-10 | 7.31 | 4.45 | 7.31 | 6.35 | 1.35 | 64.54 | 26.31 | 80.76 | 57.21 | 22.83 | 0.11 | 0.17 | 0.09 | 0.12 | 0.03 |
| 10-15 | 4.87 | 2.38 | 5.12 | 4.12 | 1.24 | 44.34 | 19.65 | 23.73 | 29.24 | 10.81 | 0.11 | 0.12 | 0.22 | 0.15 | 0.05 |
| 15-20 | 7.31 | 3.05 | 3.35 | 4.57 | 1.94 | 44.86 | 20.08 | 18.06 | 27.67 | 12.18 | 0.16 | 0.15 | 0.19 | 0.17 | 0.01 |
| 20-30 | 1.95 | 1.34 | 1.74 | 1.67 | 0.25 | 12.05 | 9.36 | 10.23 | 10.55 | 1.12 | 0.16 | 0.14 | 0.17 | 0.16 | 0.01 |
| 30-40 | 1.95 | 1.28 | 4.57 | 2.60 | 1.42 | 9.22 | 6.87 | 9.03 | 8.37 | 1.06 | 0.21 | 0.19 | 0.51 | 0.30 | 0.15 |

Table 40. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E25 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E25 | GPS | N 49.03658° | W 123.10715° | Date | Aug 11, 2003 | Time (PST) | 1630 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | | 46.90 | 23.14 | 35.02 | 11.88 | | 15.54 | 13.15 | 14.35 | 1.20 | | 3.02 | 1.76 | 2.39 | 0.63 |
| 1-2 | 55.43 | 44.46 | 30.15 | 43.35 | 10.35 | 9.47 | 14.59 | 12.30 | 12.12 | 2.09 | 5.85 | 3.05 | 2.45 | 3.78 | 1.48 |
| 2-3 | | 30.76 | 41.11 | 35.93 | 5.18 | | 13.53 | 18.25 | 15.89 | 2.36 | | 2.27 | 2.25 | 2.26 | 0.01 |
| 3-4 | | 29.24 | 35.93 | 32.59 | 3.35 | | 14.44 | 15.43 | 14.94 | 0.49 | | 2.02 | 2.33 | 2.18 | 0.15 |
| 4-5 | 13.22 | 23.75 | 35.33 | 24.10 | 9.03 | 12.80 | 16.23 | 9.27 | 12.77 | 2.84 | 1.03 | 1.46 | 3.81 | 2.10 | 1.22 |
| 5-10 | 6.27 | 7.86 | 7.49 | 7.21 | 0.68 | 5.78 | 7.89 | 6.84 | 6.84 | 0.86 | 1.08 | 1.00 | 1.09 | 1.06 | 0.04 |
| 10-15 | 5.73 | 7.37 | 6.88 | 6.66 | 0.69 | 4.92 | 5.61 | 8.80 | 6.44 | 1.69 | 1.16 | 1.31 | 0.78 | 1.09 | 0.22 |
| 15-20 | 4.39 | 5.66 | 6.33 | 5.46 | 0.81 | 3.92 | 5.53 | 6.03 | 5.16 | 0.90 | 1.12 | 1.02 | 1.05 | 1.06 | 0.04 |
| 20-30 | 2.13 | 2.19 | 2.89 | 2.41 | 0.35 | 2.21 | 2.61 | 2.58 | 2.46 | 0.18 | 0.97 | 0.84 | 1.12 | 0.98 | 0.11 |
| 30-40 | 1.98 | 2.07 | 2.38 | 2.14 | 0.17 | 2.70 | 2.51 | 2.42 | 2.54 | 0.11 | 0.73 | 0.82 | 0.98 | 0.85 | 0.10 |

Table 41. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E26 located on Roberts Bank, British Columbia on August 11, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E26 | GPS | N 49.03443° | W 123.11097° | Date | Aug 11, 2003 | Time (PST) | 1550 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 11.24 | 13.16 | 8.68 | 11.02 | 1.83 | 8.48 | 8.93 | 6.70 | 8.04 | 0.96 | 1.33 | 1.47 | 1.30 | 1.36 | 0.08 |
| 1-2 | 10.63 | 12.49 | 11.94 | 11.68 | 0.78 | 10.01 | 14.27 | 10.76 | 11.68 | 1.86 | 1.06 | 0.87 | 1.11 | 1.02 | 0.10 |
| 2-3 | 9.47 | 10.84 | 13.16 | 11.16 | 1.52 | 12.34 | 11.73 | 12.31 | 12.13 | 0.28 | 0.77 | 0.92 | 1.07 | 0.92 | 0.12 |
| 3-4 | 7.84 | 7.88 | 10.23 | 8.65 | 1.12 | 8.96 | 8.84 | 12.34 | 10.05 | 1.62 | 0.88 | 0.89 | 0.83 | 0.87 | 0.03 |
| 4-5 | 7.12 | 7.08 | 8.41 | 7.54 | 0.62 | 8.68 | 8.91 | 8.47 | 8.69 | 0.18 | 0.82 | 0.79 | 0.99 | 0.87 | 0.09 |
| 5-10 | 3.11 | 3.84 | 4.51 | 3.82 | 0.57 | 6.31 | 6.44 | 6.69 | 6.48 | 0.16 | 0.49 | 0.60 | 0.67 | 0.59 | 0.07 |
| 10-15 | 2.56 | 3.23 | 3.35 | 3.05 | 0.35 | 4.27 | 6.68 | 5.63 | 5.53 | 0.99 | 0.60 | 0.48 | 0.59 | 0.56 | 0.05 |
| 15-20 | 2.13 | 2.98 | 2.31 | 2.48 | 0.37 | 4.33 | 5.63 | 4.58 | 4.84 | 0.56 | 0.49 | 0.53 | 0.51 | 0.51 | 0.02 |
| 20-30 | 0.59 | 1.28 | 1.10 | 0.99 | 0.29 | 1.32 | 3.43 | 2.26 | 2.33 | 0.86 | 0.45 | 0.37 | 0.49 | 0.44 | 0.05 |
| 30-40 | 0.51 | 0.52 | 1.00 | 0.68 | 0.23 | 1.24 | 1.32 | 2.22 | 1.59 | 0.45 | 0.41 | 0.40 | 0.45 | 0.42 | 0.02 |



Table 42. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E29 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E29 | GPS | N 49.02393° | W 123.12653° | Date | Aug 12, 2003 | Time (PST) | 1500 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 7.31 | 11.57 | 10.05 | 9.64 | 1.76 | 29.91 | 32.72 | 29.32 | 30.65 | 1.48 | 0.24 | 0.35 | 0.34 | 0.31 | 0.05 |
| 1-2 | 5.48 | 4.87 | 10.35 | 6.90 | 2.45 | 40.96 | 24.96 | 27.79 | 31.24 | 6.97 | 0.13 | 0.20 | 0.37 | 0.23 | 0.10 |
| 2-3 | 5.79 | 7.61 | 6.15 | 6.52 | 0.79 | 29.28 | 36.06 | 24.54 | 29.96 | 4.73 | 0.20 | 0.21 | 0.25 | 0.22 | 0.02 |
| 3-4 | 6.70 | 6.70 | 4.64 | 6.01 | 0.97 | 33.90 | 36.05 | 13.54 | 27.83 | 10.14 | 0.20 | 0.19 | 0.34 | 0.24 | 0.07 |
| 4-5 | 6.40 | 7.92 | 7.77 | 7.36 | 0.68 | 31.74 | 40.37 | 20.99 | 31.04 | 7.93 | 0.20 | 0.20 | 0.37 | 0.26 | 0.08 |
| 5-10 | 2.56 | 3.11 | 3.05 | 2.90 | 0.25 | 14.73 | 13.38 | 10.06 | 12.72 | 1.96 | 0.17 | 0.23 | 0.30 | 0.24 | 0.05 |
| 10-15 | 2.50 | 4.08 | 3.17 | 3.25 | 0.65 | 12.76 | 12.96 | 13.26 | 12.99 | 0.20 | 0.20 | 0.31 | 0.24 | 0.25 | 0.05 |
| 15-20 | 1.95 | 3.84 | 3.41 | 3.07 | 0.81 | 8.63 | 11.48 | 13.14 | 11.08 | 1.86 | 0.23 | 0.33 | 0.26 | 0.27 | 0.05 |
| 20-30 | 1.31 | 1.61 | 2.44 | 1.79 | 0.48 | 6.20 | 5.74 | 7.62 | 6.52 | 0.80 | 0.21 | 0.28 | 0.32 | 0.27 | 0.04 |
| 30-40 | 1.80 | 1.49 | 2.47 | 1.92 | 0.41 | 7.98 | 6.63 | 7.44 | 7.35 | 0.56 | 0.23 | 0.23 | 0.33 | 0.26 | 0.05 |

Table 43. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F30 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F30 | GPS | N 49.03352° | W 123.10128° | Date | Aug 12, 2003 | Time (PST) | 1000 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 19.19 | 27.41 | 27.71 | 24.77 | 3.95 | 15.26 | 11.65 | 16.27 | 14.40 | 1.98 | 1.26 | 2.35 | 1.70 | 1.77 | 0.45 |
| 1-2 | 24.97 | 25.28 | 20.71 | 23.65 | 2.09 | 17.47 | 14.40 | 14.36 | 15.41 | 1.46 | 1.43 | 1.76 | 1.44 | 1.54 | 0.15 |
| 2-3 | 20.71 | 24.06 | 13.52 | 19.43 | 4.40 | 15.89 | 15.31 | 11.27 | 14.16 | 2.06 | 1.30 | 1.57 | 1.20 | 1.36 | 0.16 |
| 3-4 | 13.92 | 17.66 | 12.97 | 14.85 | 2.03 | 12.32 | 13.40 | 12.68 | 12.80 | 0.45 | 1.13 | 1.32 | 1.02 | 1.16 | 0.12 |
| 4-5 | 13.06 | 12.85 | 6.81 | 10.91 | 2.90 | 12.50 | 12.92 | 8.18 | 11.20 | 2.14 | 1.05 | 0.99 | 0.83 | 0.96 | 0.09 |
| 5-10 | 3.84 | 3.65 | 3.53 | 3.67 | 0.13 | 4.65 | 3.91 | 4.03 | 4.20 | 0.32 | 0.82 | 0.93 | 0.88 | 0.88 | 0.04 |
| 10-15 | 3.26 | 2.74 | 3.23 | 3.08 | 0.24 | 2.37 | 5.07 | 3.91 | 3.78 | 1.11 | 1.37 | 0.54 | 0.83 | 0.91 | 0.35 |
| 15-20 | 2.74 | 2.68 | 0.90 | 2.11 | 0.85 | 3.60 | 4.76 | 1.57 | 3.31 | 1.32 | 0.76 | 0.56 | 0.57 | 0.63 | 0.09 |
| 20-30 | 1.22 | 1.37 | 1.16 | 1.25 | 0.09 | 2.23 | 2.17 | 2.50 | 2.30 | 0.15 | 0.55 | 0.63 | 0.46 | 0.55 | 0.07 |
| 30-40 | 1.49 | 0.43 | 0.32 | 0.75 | 0.53 | 1.61 | 1.25 | 1.26 | 1.37 | 0.17 | 0.92 | 0.35 | 0.26 | 0.51 | 0.30 |

Table 44. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F31 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F31 | GPS | N 49.03058° | W 123.10497° | Date | Aug 12, 2003 | Time (PST) | 1040 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 28.32 | 28.93 | 26.19 | 27.81 | 1.18 | 16.58 | 28.89 | 18.10 | 21.19 | 5.48 | 1.71 | 1.00 | 1.45 | 1.39 | 0.29 |
| 1-2 | 21.93 | 23.75 | 21.93 | 22.54 | 0.86 | 14.06 | 15.62 | 17.14 | 15.60 | 1.26 | 1.56 | 1.52 | 1.28 | 1.45 | 0.12 |
| 2-3 | 23.75 | 20.71 | 20.71 | 21.72 | 1.44 | 17.15 | 18.66 | 18.05 | 17.95 | 0.62 | 1.38 | 1.11 | 1.15 | 1.21 | 0.12 |
| 3-4 | 16.57 | 14.10 | 16.14 | 15.60 | 1.08 | 14.07 | 12.26 | 14.93 | 13.75 | 1.11 | 1.18 | 1.15 | 1.08 | 1.14 | 0.04 |
| 4-5 | 12.58 | 14.31 | 13.83 | 13.57 | 0.73 | 12.86 | 13.37 | 14.35 | 13.53 | 0.62 | 0.98 | 1.07 | 0.96 | 1.00 | 0.05 |
| 5-10 | 5.91 | 4.39 | 5.30 | 5.20 | 0.63 | 7.99 | 7.55 | 7.87 | 7.80 | 0.19 | 0.74 | 0.58 | 0.67 | 0.66 | 0.06 |
| 10-15 | 4.87 | 3.11 | 3.96 | 3.98 | 0.72 | 7.43 | 5.32 | 5.58 | 6.11 | 0.94 | 0.66 | 0.58 | 0.71 | 0.65 | 0.05 |
| 15-20 | 4.99 | 3.47 | 3.29 | 3.92 | 0.76 | 5.16 | 6.62 | 4.83 | 5.53 | 0.78 | 0.97 | 0.52 | 0.68 | 0.72 | 0.18 |
| 20-30 | 2.10 | 1.31 | 2.07 | 1.83 | 0.37 | 2.27 | 2.84 | 3.62 | 2.91 | 0.55 | 0.93 | 0.46 | 0.57 | 0.65 | 0.20 |
| 30-40 | 1.80 | 3.11 | 2.19 | 2.37 | 0.55 | 2.76 | 3.35 | 4.02 | 3.38 | 0.52 | 0.65 | 0.93 | 0.55 | 0.71 | 0.16 |

Table 45. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F32 located on Roberts Bank, British Columbia on August 12, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F32 | GPS | N 49.02772° | W 123.10933° | Date | Aug 12, 2003 | Time (PST) | 1430 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 6.70 | 9.75 | 10.66 | 9.03 | 1.69 | 40.05 | 50.85 | 50.24 | 47.05 | 4.95 | 0.17 | 0.19 | 0.21 | 0.19 | 0.02 |
| 1-2 | 10.96 | 17.05 | 14.01 | 14.01 | 2.49 | 65.01 | 34.93 | 45.35 | 48.43 | 12.47 | 0.17 | 0.49 | 0.31 | 0.32 | 0.13 |
| 2-3 | 1.83 | 17.36 | 12.79 | 10.66 | 6.52 | 82.45 | 39.54 | 37.65 | 53.22 | 20.69 | 0.02 | 0.44 | 0.34 | 0.27 | 0.18 |
| 3-4 | 15.23 | 15.84 | 14.92 | 15.33 | 0.38 | 54.29 | 37.99 | 40.75 | 44.34 | 7.12 | 0.28 | 0.42 | 0.37 | 0.35 | 0.06 |
| 4-5 | 7.92 | 14.31 | 11.57 | 11.27 | 2.62 | 60.67 | 39.82 | 36.10 | 45.53 | 10.81 | 0.13 | 0.36 | 0.32 | 0.27 | 0.10 |
| 5-10 | 3.41 | 5.42 | 3.59 | 4.14 | 0.91 | 18.24 | 17.65 | 19.29 | 18.39 | 0.68 | 0.19 | 0.31 | 0.19 | 0.23 | 0.06 |
| 10-15 | 2.92 | 3.65 | 3.47 | 3.35 | 0.31 | 12.82 | 15.05 | 14.12 | 14.00 | 0.91 | 0.23 | 0.24 | 0.25 | 0.24 | 0.01 |
| 15-20 | 1.46 | 3.53 | 3.53 | 2.84 | 0.98 | 14.90 | 12.89 | 11.35 | 13.05 | 1.45 | 0.10 | 0.27 | 0.31 | 0.23 | 0.09 |
| 20-30 | 1.58 | 1.83 | 1.80 | 1.74 | 0.11 | 5.06 | 5.89 | 6.20 | 5.72 | 0.48 | 0.31 | 0.31 | 0.29 | 0.30 | 0.01 |
| 30-40 | 0.97 | 0.94 | 2.07 | 1.33 | 0.52 | 4.75 | 4.65 | 8.51 | 5.97 | 1.80 | 0.21 | 0.20 | 0.24 | 0.22 | 0.02 |



Table 46. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A2 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A2 | GPS | N 49.11190° | W 123.22265° | Date | Oct 27, 2003 | Time (PST) | 2100 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 46.90 | 69.13 | 42.63 | 52.89 | 11.62 | 50.30 | 62.51 | 45.64 | 52.82 | 7.12 | 0.93 | 1.11 | 0.93 | 0.99 | 0.08 |
| 1-2 | 51.47 | 39.89 | 42.03 | 44.46 | 5.03 | 68.18 | 74.22 | 80.39 | 74.26 | 4.98 | 0.75 | 0.54 | 0.52 | 0.61 | 0.11 |
| 2-3 | 50.86 | 31.06 | 51.47 | 44.46 | 9.48 | 87.86 | 62.44 | 69.72 | 73.34 | 10.69 | 0.58 | 0.50 | 0.74 | 0.60 | 0.10 |
| 3-4 | 53.90 | 45.38 | 58.78 | 52.68 | 5.54 | 83.28 | 80.42 | 81.79 | 81.83 | 1.17 | 0.65 | 0.56 | 0.72 | 0.64 | 0.06 |
| 4-5 | 80.88 | 31.37 | 33.19 | 48.48 | 22.92 | 120.40 | 54.76 | 58.46 | 77.87 | 30.11 | 0.67 | 0.57 | 0.57 | 0.60 | 0.05 |
| 5-10 | 16.96 | 4.87 | 7.00 | 9.61 | 5.27 | 21.04 | 12.47 | 11.94 | 15.15 | 4.17 | 0.81 | 0.39 | 0.59 | 0.59 | 0.17 |
| 10-15 | 7.25 | 7.37 | 16.91 | 10.51 | 4.53 | 12.81 | 14.16 | 30.48 | 19.15 | 8.03 | 0.57 | 0.52 | 0.55 | 0.55 | 0.02 |
| 15-20 | 4.39 | 22.90 | 10.48 | 12.59 | 7.71 | 13.33 | 27.79 | 16.22 | 19.11 | 6.25 | 0.33 | 0.82 | 0.65 | 0.60 | 0.20 |
| 20-30 | 5.12 | 3.05 | 5.88 | 4.68 | 1.20 | 8.23 | 6.09 | 7.23 | 7.18 | 0.88 | 0.62 | 0.50 | 0.81 | 0.64 | 0.13 |
| 30-40 | 3.29 | 1.80 | 3.47 | 2.85 | 0.75 | 5.20 | 3.37 | 5.60 | 4.72 | 0.97 | 0.63 | 0.53 | 0.62 | 0.60 | 0.04 |

Table 47. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A3 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A3 | GPS | N 49.10980° | W 123.22623° | Date | Oct 27, 2003 | Time (PST) | 2220 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 11.05 | 15.84 | 12.73 | 13.21 | 1.98 | 11.31 | 20.46 | 11.32 | 14.36 | 4.31 | 0.98 | 0.77 | 1.12 | 0.96 | 0.14 |
| 1-2 | 27.41 | 11.57 | 24.67 | 21.22 | 6.91 | 27.65 | 22.88 | 21.78 | 24.10 | 2.55 | 0.99 | 0.51 | 1.13 | 0.88 | 0.27 |
| 2-3 | 29.54 | 13.70 | 31.98 | 25.07 | 8.10 | 27.36 | 19.21 | 26.77 | 24.45 | 3.71 | 1.08 | 0.71 | 1.19 | 1.00 | 0.21 |
| 3-4 | 31.06 | 18.88 | 26.49 | 25.48 | 5.02 | 22.15 | 19.57 | 21.49 | 21.07 | 1.10 | 1.40 | 0.96 | 1.23 | 1.20 | 0.18 |
| 4-5 | 38.07 | 22.84 | 25.28 | 28.73 | 6.68 | 16.37 | 20.22 | 23.01 | 19.87 | 2.72 | 2.32 | 1.13 | 1.10 | 1.52 | 0.57 |
| 5-10 | 21.98 | 12.49 | 7.55 | 14.00 | 5.99 | 15.38 | 12.06 | 10.72 | 12.72 | 1.96 | 1.43 | 1.04 | 0.70 | 1.06 | 0.30 |
| 10-15 | 8.41 | 8.77 | 4.63 | 7.27 | 1.87 | 13.99 | 7.78 | 6.81 | 9.53 | 3.18 | 0.60 | 1.13 | 0.68 | 0.80 | 0.23 |
| 15-20 | 12.85 | 8.41 | 7.19 | 9.48 | 2.43 | 8.86 | 6.97 | 6.41 | 7.42 | 1.05 | 1.45 | 1.21 | 1.12 | 1.26 | 0.14 |
| 20-30 | 2.41 | 4.35 | 3.41 | 3.39 | 0.80 | 5.31 | 4.17 | 3.23 | 4.24 | 0.85 | 0.45 | 1.05 | 1.06 | 0.85 | 0.28 |
| 30-40 | 4.26 | 2.95 | 1.58 | 2.93 | 1.09 | 4.10 | 3.23 | 2.54 | 3.29 | 0.64 | 1.04 | 0.92 | 0.62 | 0.86 | 0.17 |

Table 48. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A4 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A4 | GPS | N 49.10167° | W 123.24248° | Date | Oct 27, 2003 | Time (PST) | 0020 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 6.01 | 5.98 | 5.94 | 5.98 | 0.03 | 14.48 | 12.98 | 11.52 | 12.99 | 1.21 | 0.42 | 0.46 | 0.52 | 0.46 | 0.04 |
| 1-2 | 6.32 | 6.09 | 9.75 | 7.38 | 1.67 | 14.37 | 12.29 | 29.63 | 18.76 | 7.73 | 0.44 | 0.50 | 0.33 | 0.42 | 0.07 |
| 2-3 | 6.81 | 12.58 | 7.61 | 9.00 | 2.55 | 13.72 | 17.17 | 27.76 | 19.55 | 5.97 | 0.50 | 0.73 | 0.27 | 0.50 | 0.19 |
| 3-4 | 8.83 | 10.05 | 10.05 | 9.64 | 0.57 | 28.69 | 21.63 | 33.32 | 27.88 | 4.81 | 0.31 | 0.46 | 0.30 | 0.36 | 0.08 |
| 4-5 | 9.44 | 5.25 | 6.70 | 7.13 | 1.74 | 29.01 | 10.55 | 33.90 | 24.49 | 10.06 | 0.33 | 0.50 | 0.20 | 0.34 | 0.12 |
| 5-10 | 4.02 | 3.23 | 2.44 | 3.23 | 0.65 | 7.79 | 5.81 | 9.07 | 7.56 | 1.34 | 0.52 | 0.56 | 0.27 | 0.45 | 0.13 |
| 10-15 | 2.38 | 2.92 | 1.16 | 2.15 | 0.74 | 6.18 | 4.40 | 5.79 | 5.46 | 0.76 | 0.38 | 0.66 | 0.20 | 0.42 | 0.19 |
| 15-20 | 2.86 | 3.23 | 2.25 | 2.78 | 0.40 | 5.63 | 4.09 | 7.53 | 5.75 | 1.41 | 0.51 | 0.79 | 0.30 | 0.53 | 0.20 |
| 20-30 | 0.69 | 0.69 | 1.00 | 0.79 | 0.15 | 1.24 | 1.25 | 2.87 | 1.79 | 0.77 | 0.55 | 0.55 | 0.35 | 0.49 | 0.10 |
| 30-40 | 0.36 | 1.25 | 1.04 | 0.88 | 0.38 | 0.87 | 2.20 | 2.50 | 1.86 | 0.71 | 0.41 | 0.57 | 0.41 | 0.47 | 0.07 |

Table 49. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A5 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A5 | GPS | N 49.09358° | W 123.26085° | Date | Oct 27, 2003 | Time (PST) | 0100 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 8.49 | 6.78 | 6.59 | 7.28 | 0.86 | 3.97 | 3.45 | 4.03 | 3.82 | 0.26 | 2.14 | 1.96 | 1.64 | 1.91 | 0.21 | |
| 1-2 | 7.61 | 6.78 | 7.42 | 7.27 | 0.36 | 6.57 | 3.72 | 4.34 | 4.88 | 1.23 | 1.16 | 1.82 | 1.71 | 1.56 | 0.29 | |
| 2-3 | 6.89 | 7.88 | 6.85 | 7.21 | 0.48 | 5.26 | 4.15 | 3.84 | 4.42 | 0.61 | 1.31 | 1.90 | 1.79 | 1.66 | 0.25 | |
| 3-4 | 6.51 | 7.54 | 7.99 | 7.35 | 0.62 | 3.41 | 4.27 | 3.85 | 3.84 | 0.35 | 1.91 | 1.77 | 2.08 | 1.92 | 0.13 | |
| 4-5 | 4.99 | 6.51 | 16.87 | 9.46 | 5.28 | 2.74 | 3.22 | 9.46 | 5.14 | 3.06 | 1.82 | 2.02 | 1.78 | 1.88 | 0.11 | |
| 5-10 | 1.87 | 3.34 | 4.02 | 3.08 | 0.90 | 1.38 | 2.01 | 2.50 | 1.96 | 0.46 | 1.36 | 1.66 | 1.61 | 1.54 | 0.13 | |
| 10-15 | 1.42 | 1.39 | 4.13 | 2.32 | 1.28 | 1.55 | 1.87 | 1.05 | 1.49 | 0.34 | 0.92 | 0.74 | 3.93 | 1.86 | 1.46 | |
| 15-20 | 1.26 | 0.99 | 2.13 | 1.46 | 0.49 | 1.73 | 3.27 | 4.27 | 3.09 | 1.04 | 0.73 | 0.30 | 0.50 | 0.51 | 0.17 | |
| 20-30 | 0.46 | 1.04 | 1.37 | 0.96 | 0.38 | 1.51 | 2.81 | 3.86 | 2.73 | 0.96 | 0.31 | 0.37 | 0.36 | 0.34 | 0.03 | |
| 30-40 | 0.37 | 0.61 | 0.36 | 0.45 | 0.11 | 1.22 | 1.37 | 1.01 | 1.20 | 0.15 | 0.31 | 0.44 | 0.36 | 0.37 | 0.06 | |

Table 50. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A6 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A6 | GPS | N 49.08555° | W 123.28115° | Date | Oct 27, 2003 | Time (PST) | 0115 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 5.25 | 5.79 | 4.00 | 5.01 | 0.75 | 7.67 | 10.25 | 7.46 | 8.46 | 1.27 | 0.69 | 0.56 | 0.54 | 0.60 | 0.06 | |
| 1-2 | 6.24 | 6.20 | 4.95 | 5.80 | 0.60 | 8.56 | 10.87 | 8.35 | 9.26 | 1.14 | 0.73 | 0.57 | 0.59 | 0.63 | 0.07 | |
| 2-3 | 9.62 | 7.46 | 6.01 | 7.70 | 1.48 | 12.95 | 16.07 | 8.83 | 12.62 | 2.97 | 0.74 | 0.46 | 0.68 | 0.63 | 0.12 | |
| 3-4 | 7.08 | 8.65 | 5.29 | 7.01 | 1.37 | 9.57 | 17.99 | 8.20 | 11.92 | 4.33 | 0.74 | 0.48 | 0.64 | 0.62 | 0.11 | |
| 4-5 | 8.71 | 5.98 | 6.09 | 6.93 | 1.26 | 18.17 | 9.48 | 8.75 | 12.13 | 4.28 | 0.48 | 0.63 | 0.70 | 0.60 | 0.09 | |
| 5-10 | 3.35 | 2.68 | 4.20 | 3.41 | 0.62 | 6.55 | 3.78 | 3.61 | 4.65 | 1.35 | 0.51 | 0.71 | 1.16 | 0.79 | 0.27 | |
| 10-15 | 3.41 | 1.40 | 4.51 | 3.11 | 1.29 | 5.76 | 1.84 | 4.54 | 4.04 | 1.63 | 0.59 | 0.76 | 0.99 | 0.78 | 0.16 | |
| 15-20 | 2.74 | 1.13 | 2.98 | 2.28 | 0.82 | 4.46 | 1.75 | 5.14 | 3.78 | 1.46 | 0.62 | 0.64 | 0.58 | 0.61 | 0.03 | |
| 20-30 | 1.22 | 0.57 | 1.74 | 1.17 | 0.48 | 2.96 | 1.18 | 2.02 | 2.05 | 0.73 | 0.41 | 0.48 | 0.86 | 0.59 | 0.20 | |
| 30-40 | 1.29 | 0.40 | 0.26 | 0.65 | 0.45 | 1.59 | 0.85 | 0.71 | 1.05 | 0.39 | 0.81 | 0.47 | 0.37 | 0.55 | 0.19 | |

Table 51. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B10 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B10 | GPS | N 49.07933° | W 123.19400° | Date | Oct 27, 2003 | Time (PST) | 2200 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 32.59 | 47.81 | 25.89 | 35.43 | 9.17 | 14.78 | 14.63 | 18.10 | 15.84 | 1.60 | 2.20 | 3.27 | 1.43 | 2.30 | 0.75 |
| 1-2 | 43.55 | 56.95 | 41.11 | 47.20 | 6.96 | 19.81 | 27.02 | 27.48 | 24.77 | 3.51 | 2.20 | 2.11 | 1.50 | 1.93 | 0.31 |
| 2-3 | 37.76 | 52.38 | 53.60 | 47.91 | 7.20 | 26.83 | 22.05 | 22.68 | 23.86 | 2.12 | 1.41 | 2.38 | 2.36 | 2.05 | 0.45 |
| 3-4 | 44.46 | 37.15 | 58.78 | 46.80 | 8.98 | 25.05 | 20.06 | 23.35 | 22.82 | 2.07 | 1.77 | 1.85 | 2.52 | 2.05 | 0.33 |
| 4-5 | 41.42 | 35.33 | 58.78 | 45.17 | 9.93 | 26.87 | 17.27 | 25.19 | 23.11 | 4.19 | 1.54 | 2.05 | 2.33 | 1.97 | 0.33 |
| 5-10 | 16.99 | 16.93 | 16.75 | 16.89 | 0.10 | 8.35 | 5.28 | 4.66 | 6.09 | 1.62 | 2.03 | 3.21 | 3.60 | 2.95 | 0.66 |
| 10-15 | 13.70 | 6.76 | 16.08 | 12.18 | 3.95 | 3.27 | 4.62 | 4.77 | 4.22 | 0.67 | 4.19 | 1.46 | 3.37 | 3.01 | 1.14 |
| 15-20 | 12.97 | 4.93 | 14.01 | 10.64 | 4.06 | 6.22 | 4.54 | 4.88 | 5.21 | 0.73 | 2.09 | 1.09 | 2.87 | 2.01 | 0.73 |
| 20-30 | 6.36 | 1.86 | 8.28 | 5.50 | 2.69 | 3.85 | 2.20 | 2.85 | 2.97 | 0.68 | 1.65 | 0.84 | 2.91 | 1.80 | 0.85 |
| 30-40 | 3.17 | 1.29 | 2.68 | 2.38 | 0.79 | 2.43 | 1.77 | 2.24 | 2.15 | 0.28 | 1.30 | 0.73 | 1.20 | 1.08 | 0.25 |

Table 52. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B11 located on Roberts Bank, British Columbia on October 28, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B11 | GPS | N 49.07055° | W 123.21350° | Date | Oct 28, 2003 | Time (PST) | 0000 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 7.88 | 5.48 | 7.35 | 6.90 | 1.03 | 4.27 | 3.63 | 6.69 | 4.86 | 1.32 | 1.85 | 1.51 | 1.10 | 1.48 | 0.31 |
| 1-2 | 8.37 | 6.97 | 6.47 | 7.27 | 0.81 | 4.74 | 4.76 | 5.06 | 4.85 | 0.15 | 1.77 | 1.46 | 1.28 | 1.50 | 0.20 |
| 2-3 | 8.07 | 6.66 | 5.44 | 6.73 | 1.07 | 5.08 | 3.83 | 4.01 | 4.31 | 0.55 | 1.59 | 1.74 | 1.36 | 1.56 | 0.16 |
| 3-4 | 6.89 | 5.37 | 5.02 | 5.76 | 0.81 | 4.41 | 3.55 | 3.66 | 3.88 | 0.38 | 1.56 | 1.51 | 1.37 | 1.48 | 0.08 |
| 4-5 | 7.12 | 5.33 | 4.72 | 5.72 | 1.02 | 4.76 | 4.13 | 5.28 | 4.72 | 0.47 | 1.49 | 1.29 | 0.89 | 1.23 | 0.25 |
| 5-10 | 2.31 | 2.44 | 2.86 | 2.54 | 0.24 | 3.11 | 5.44 | 7.29 | 5.28 | 1.71 | 0.74 | 0.45 | 0.39 | 0.53 | 0.15 |
| 10-15 | 2.52 | 2.50 | 2.56 | 2.53 | 0.03 | 3.17 | 4.02 | 6.24 | 4.48 | 1.29 | 0.79 | 0.62 | 0.41 | 0.61 | 0.16 |
| 15-20 | 2.44 | 2.47 | 2.68 | 2.53 | 0.11 | 3.78 | 2.61 | 3.59 | 3.33 | 0.51 | 0.65 | 0.95 | 0.75 | 0.78 | 0.12 |
| 20-30 | 1.49 | 1.14 | 1.12 | 1.25 | 0.17 | 2.11 | 1.62 | 1.81 | 1.85 | 0.20 | 0.71 | 0.70 | 0.62 | 0.68 | 0.04 |
| 30-40 | 1.49 | 0.65 | 1.19 | 1.11 | 0.35 | 2.38 | 0.92 | 2.04 | 1.78 | 0.63 | 0.63 | 0.71 | 0.58 | 0.64 | 0.05 |

Table 53. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B12 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B12 | GPS | N 49.06262° | W 123.22867° | Date | Oct 27, 2003 | Time (PST) | 0210 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | | | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 3.27 | 4.87 | 2.97 | 3.71 | 0.83 | 4.30 | 2.70 | 1.76 | 2.92 | 1.05 | 0.76 | 1.80 | 1.69 | 1.42 | 0.47 |
| 1-2 | 6.36 | 7.19 | 3.58 | 5.71 | 1.55 | 4.68 | 3.80 | 2.27 | 3.58 | 1.00 | 1.36 | 1.89 | 1.58 | 1.61 | 0.22 |
| 2-3 | 5.22 | 6.13 | 2.86 | 4.73 | 1.38 | 3.86 | 3.60 | 1.91 | 3.12 | 0.86 | 1.35 | 1.70 | 1.49 | 1.52 | 0.14 |
| 3-4 | 5.37 | 6.89 | 2.51 | 4.92 | 1.81 | 4.17 | 3.80 | 2.33 | 3.43 | 0.79 | 1.29 | 1.81 | 1.08 | 1.39 | 0.31 |
| 4-5 | 5.10 | 5.98 | 3.46 | 4.85 | 1.04 | 4.86 | 3.48 | 4.92 | 4.42 | 0.66 | 1.05 | 1.72 | 0.70 | 1.16 | 0.42 |
| 5-10 | 2.17 | 3.05 | 0.98 | 2.07 | 0.85 | 2.96 | 3.54 | 1.64 | 2.71 | 0.79 | 0.73 | 0.86 | 0.60 | 0.73 | 0.11 |
| 10-15 | 0.84 | 1.29 | 0.72 | 0.95 | 0.25 | 1.63 | 2.12 | 1.45 | 1.73 | 0.28 | 0.51 | 0.61 | 0.50 | 0.54 | 0.05 |
| 15-20 | 0.72 | 0.97 | 0.66 | 0.78 | 0.13 | 2.85 | 2.24 | 2.74 | 2.61 | 0.27 | 0.25 | 0.43 | 0.24 | 0.31 | 0.09 |
| 20-30 | 0.29 | 0.48 | 0.21 | 0.32 | 0.11 | 1.73 | 1.27 | 0.97 | 1.32 | 0.31 | 0.17 | 0.38 | 0.22 | 0.25 | 0.09 |
| 30-40 | 0.28 | 0.51 | 0.21 | 0.33 | 0.13 | 1.31 | 1.09 | 0.89 | 1.09 | 0.17 | 0.21 | 0.47 | 0.24 | 0.31 | 0.11 |



Table 54. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B13 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B13 | GPS | N 49.05370° | W 123.24553° | Date | Oct 27, 2003 | Time (PST) | 0155 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | | | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 2.09 | 1.41 | | 1.75 | 0.34 | 4.63 | 2.55 | | 3.59 | 1.04 | 0.45 | 0.55 | | 0.50 | 0.05 |
| 1-2 | 1.52 | 1.56 | | 1.54 | 0.02 | 2.98 | 2.48 | | 2.73 | 0.25 | 0.51 | 0.63 | | 0.57 | 0.06 |
| 2-3 | 1.04 | 1.45 | | 1.24 | 0.20 | 1.76 | 2.24 | | 2.00 | 0.24 | 0.59 | 0.64 | | 0.62 | 0.03 |
| 3-4 | 1.36 | 1.98 | | 1.67 | 0.31 | 2.15 | 2.79 | | 2.47 | 0.32 | 0.63 | 0.71 | | 0.67 | 0.04 |
| 4-5 | 1.41 | 3.24 | | 2.32 | 0.91 | 2.09 | 7.45 | | 4.77 | 2.68 | 0.67 | 0.43 | | 0.55 | 0.12 |
| 5-10 | 0.73 | 0.71 | | 0.72 | 0.01 | 1.38 | 1.85 | | 1.61 | 0.24 | 0.53 | 0.38 | | 0.46 | 0.07 |
| 10-15 | 0.60 | 0.40 | | 0.50 | 0.10 | 1.35 | 1.20 | | 1.27 | 0.08 | 0.44 | 0.33 | | 0.39 | 0.06 |
| 15-20 | 0.37 | 0.25 | | 0.31 | 0.06 | 0.96 | 0.91 | | 0.93 | 0.02 | 0.39 | 0.28 | | 0.33 | 0.06 |
| 20-30 | 0.14 | 0.13 | | 0.13 | 0.00 | 0.77 | 1.09 | | 0.93 | 0.16 | 0.18 | 0.12 | | 0.15 | 0.03 |
| 30-40 | 0.11 | 0.09 | | 0.10 | 0.01 | 0.73 | 1.01 | | 0.87 | 0.14 | 0.16 | 0.09 | | 0.12 | 0.04 |

Table 55. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B14 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B14 | GPS | N 49.04615° | W 123.26015° | Date | Oct 27, 2003 | Time (PST) | 0135 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 2.19 | 2.49 | 1.48 | 2.05 | 0.43 | 0.80 | 0.26 | 0.87 | 0.64 | 0.27 | 2.74 | 9.75 | 1.69 | 4.73 | 3.58 | |
| 1-2 | 2.48 | 3.01 | 1.93 | 2.47 | 0.44 | 1.02 | 0.51 | 0.97 | 0.83 | 0.23 | 2.44 | 5.86 | 1.98 | 3.43 | 1.73 | |
| 2-3 | 2.00 | 2.71 | 2.09 | 2.27 | 0.32 | 0.94 | 0.35 | 1.27 | 0.85 | 0.38 | 2.12 | 7.75 | 1.65 | 3.84 | 2.77 | |
| 3-4 | 1.52 | 1.79 | 1.98 | 1.76 | 0.19 | 0.79 | 1.83 | 1.13 | 1.25 | 0.43 | 1.92 | 0.97 | 1.74 | 1.55 | 0.41 | |
| 4-5 | 1.26 | 2.19 | 1.91 | 1.79 | 0.39 | 0.75 | 1.05 | 1.16 | 0.99 | 0.18 | 1.69 | 2.08 | 1.64 | 1.80 | 0.20 | |
| 5-10 | 0.51 | 0.74 | 0.46 | 0.57 | 0.12 | 0.27 | 0.55 | 0.42 | 0.41 | 0.11 | 1.91 | 1.35 | 1.11 | 1.46 | 0.34 | |
| 10-15 | 0.43 | 0.40 | 0.37 | 0.40 | 0.03 | 0.29 | 0.51 | 0.38 | 0.39 | 0.09 | 1.48 | 0.77 | 0.98 | 1.08 | 0.30 | |
| 15-20 | 0.29 | 0.43 | 0.36 | 0.36 | 0.06 | 0.31 | 0.48 | 0.37 | 0.39 | 0.07 | 0.93 | 0.90 | 0.97 | 0.94 | 0.03 | |
| 20-30 | 0.09 | 0.14 | 0.18 | 0.14 | 0.04 | 0.26 | 0.33 | 0.26 | 0.28 | 0.03 | 0.34 | 0.42 | 0.71 | 0.49 | 0.16 | |
| 30-40 | 0.07 | 0.08 | 0.08 | 0.08 | 0.00 | 0.25 | 0.34 | 0.26 | 0.28 | 0.04 | 0.29 | 0.24 | 0.29 | 0.28 | 0.02 | |



Table 56. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C16 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C16 | GPS | N 49.05273° | W 123.15477° | Date | Oct 27, 2003 | Time (PST) | 0510 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 31.06 | 27.41 | 33.19 | 30.55 | 2.39 | 16.30 | 24.57 | 25.86 | 22.25 | 4.23 | 1.91 | 1.12 | 1.28 | 1.43 | 0.34 | |
| 1-2 | 42.33 | 37.15 | 30.45 | 36.65 | 4.86 | 25.03 | 22.82 | 27.99 | 25.28 | 2.11 | 1.69 | 1.63 | 1.09 | 1.47 | 0.27 | |
| 2-3 | 46.90 | 23.45 | 29.54 | 33.30 | 9.93 | 22.61 | 19.61 | 22.44 | 21.56 | 1.38 | 2.07 | 1.20 | 1.32 | 1.53 | 0.39 | |
| 3-4 | 40.81 | 12.15 | 26.80 | 26.59 | 11.70 | 27.48 | 14.64 | 17.18 | 19.77 | 5.55 | 1.49 | 0.83 | 1.56 | 1.29 | 0.33 | |
| 4-5 | 38.98 | 12.67 | 16.44 | 22.70 | 11.62 | 11.46 | 14.21 | 19.23 | 14.97 | 3.22 | 3.40 | 0.89 | 0.85 | 1.72 | 1.19 | |
| 5-10 | 6.82 | 3.41 | 4.93 | 5.06 | 1.40 | 5.97 | 3.29 | 4.23 | 4.50 | 1.11 | 1.14 | 1.04 | 1.17 | 1.11 | 0.06 | |
| 10-15 | 3.84 | 2.90 | 2.98 | 3.24 | 0.42 | 4.04 | 2.91 | 3.54 | 3.49 | 0.46 | 0.95 | 1.00 | 0.84 | 0.93 | 0.06 | |
| 15-20 | 2.02 | 3.35 | 2.32 | 2.56 | 0.57 | 3.32 | 4.09 | 3.03 | 3.48 | 0.45 | 0.61 | 0.82 | 0.77 | 0.73 | 0.09 | |
| 20-30 | 1.43 | 1.46 | 1.36 | 1.42 | 0.04 | 2.35 | 1.83 | 1.51 | 1.90 | 0.35 | 0.61 | 0.80 | 0.90 | 0.77 | 0.12 | |
| 30-40 | 1.64 | 1.86 | 0.68 | 1.40 | 0.51 | 2.11 | 0.57 | 1.02 | 1.23 | 0.65 | 0.78 | 3.29 | 0.67 | 1.58 | 1.21 | |

Table 57. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C17 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C17 | GPS | N 49.04830° | W 123.16345° | Date | Oct 27, 2003 | Time (PST) | 2310 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 16.75 | 14.62 | 10.14 | 13.84 | 2.75 | 11.55 | 16.45 | 7.14 | 11.71 | 3.80 | 1.45 | 0.89 | 1.42 | 1.25 | 0.26 |
| 1-2 | 9.78 | 11.94 | 12.58 | 11.43 | 1.20 | 16.34 | 11.99 | 9.17 | 12.50 | 2.95 | 0.60 | 1.00 | 1.37 | 0.99 | 0.32 |
| 2-3 | 14.50 | 13.92 | 12.06 | 13.49 | 1.04 | 16.08 | 13.24 | 9.90 | 13.07 | 2.52 | 0.90 | 1.05 | 1.22 | 1.06 | 0.13 |
| 3-4 | 10.54 | 16.14 | 14.28 | 13.65 | 2.33 | 9.03 | 18.92 | 7.59 | 11.85 | 5.04 | 1.17 | 0.85 | 1.88 | 1.30 | 0.43 |
| 4-5 | 9.44 | 15.84 | 11.63 | 12.30 | 2.65 | 6.98 | 22.92 | 11.37 | 13.76 | 6.72 | 1.35 | 0.69 | 1.02 | 1.02 | 0.27 |
| 5-10 | 6.64 | 5.54 | 4.87 | 5.68 | 0.73 | 8.19 | 10.08 | 7.86 | 8.71 | 0.98 | 0.81 | 0.55 | 0.62 | 0.66 | 0.11 |
| 10-15 | 4.51 | 4.63 | 4.93 | 4.69 | 0.18 | 8.29 | 8.72 | 6.26 | 7.76 | 1.07 | 0.54 | 0.53 | 0.79 | 0.62 | 0.12 |
| 15-20 | 4.02 | 4.87 | 7.13 | 5.34 | 1.31 | 4.78 | 6.26 | 4.56 | 5.20 | 0.76 | 0.84 | 0.78 | 1.56 | 1.06 | 0.36 |
| 20-30 | 3.11 | 2.07 | 2.62 | 2.60 | 0.42 | 1.97 | 2.60 | 2.83 | 2.47 | 0.36 | 1.58 | 0.80 | 0.93 | 1.10 | 0.34 |
| 30-40 | 2.13 | 1.64 | 1.92 | 1.90 | 0.20 | 2.57 | 2.38 | 1.90 | 2.28 | 0.29 | 0.83 | 0.69 | 1.01 | 0.84 | 0.13 |



Table 58. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C18 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C18 | GPS | N 49.04122° | W 123.17783° | Date | Oct 27, 2003 | Time (PST) | 2330 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 7.61 | 5.18 | 4.26 | 5.68 | 1.41 | 59.44 | 29.27 | 32.03 | 40.25 | 13.62 | 0.13 | 0.18 | 0.13 | 0.15 | 0.02 |
| 1-2 | 7.61 | 5.18 | 6.70 | 6.50 | 1.00 | 44.68 | 34.50 | 45.90 | 41.69 | 5.11 | 0.17 | 0.15 | 0.15 | 0.16 | 0.01 |
| 2-3 | 5.48 | 6.70 | 7.00 | 6.40 | 0.66 | 27.43 | 44.36 | 51.13 | 40.97 | 9.97 | 0.20 | 0.15 | 0.14 | 0.16 | 0.03 |
| 3-4 | 2.89 | 5.48 | 4.34 | 4.24 | 1.06 | 10.10 | 31.12 | 17.04 | 19.42 | 8.74 | 0.29 | 0.18 | 0.25 | 0.24 | 0.05 |
| 4-5 | 3.81 | 3.65 | 4.00 | 3.82 | 0.14 | 14.96 | 13.95 | 12.65 | 13.85 | 0.94 | 0.25 | 0.26 | 0.32 | 0.28 | 0.03 |
| 5-10 | 1.34 | 3.53 | 1.16 | 2.01 | 1.08 | 24.87 | 18.61 | 7.82 | 17.10 | 7.04 | 0.05 | 0.19 | 0.15 | 0.13 | 0.06 |
| 10-15 | 1.64 | 2.25 | 2.86 | 2.25 | 0.50 | 27.27 | 32.50 | 30.48 | 30.08 | 2.16 | 0.06 | 0.07 | 0.09 | 0.07 | 0.01 |
| 15-20 | 0.67 | 2.38 | 3.23 | 2.09 | 1.06 | 32.86 | 22.35 | 26.67 | 27.29 | 4.31 | 0.02 | 0.11 | 0.12 | 0.08 | 0.04 |
| 20-30 | 0.06 | 0.97 | 0.09 | 0.37 | 0.42 | 1.72 | 24.12 | 1.11 | 8.99 | 10.71 | 0.03 | 0.04 | 0.08 | 0.05 | 0.02 |
| 30-40 | 0.12 | 0.07 | 0.09 | 0.09 | 0.02 | 2.27 | 1.37 | 1.06 | 1.57 | 0.51 | 0.05 | 0.05 | 0.08 | 0.06 | 0.01 |

Table 59. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C19 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C19 | GPS | N 49.03173° | W 123.19428° | Date | Oct 29, 2003 | Time (PST) | 0240 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 2.47 | 1.51 | 2.28 | 2.09 | 0.42 | 1.60 | 0.97 | 2.41 | 1.66 | 0.59 | 1.55 | 1.56 | 0.95 | 1.35 | 0.28 |
| 1-2 | 2.34 | 2.37 | 2.47 | 2.39 | 0.06 | 1.34 | 1.46 | 2.37 | 1.72 | 0.46 | 1.75 | 1.62 | 1.04 | 1.47 | 0.31 |
| 2-3 | 2.39 | 2.78 | 2.47 | 2.55 | 0.17 | 1.35 | 1.76 | 2.60 | 1.90 | 0.52 | 1.78 | 1.58 | 0.95 | 1.44 | 0.35 |
| 3-4 | 2.86 | 2.55 | 2.66 | 2.69 | 0.13 | 2.60 | 1.37 | 2.83 | 2.27 | 0.64 | 1.10 | 1.86 | 0.94 | 1.30 | 0.40 |
| 4-5 | 2.86 | 2.13 | 2.78 | 2.59 | 0.32 | 2.18 | 1.14 | 2.76 | 2.03 | 0.67 | 1.31 | 1.88 | 1.01 | 1.40 | 0.36 |
| 5-10 | 0.97 | 0.96 | 0.95 | 0.96 | 0.01 | 0.89 | 0.71 | 1.10 | 0.90 | 0.16 | 1.08 | 1.35 | 0.86 | 1.10 | 0.20 |
| 10-15 | 0.92 | 0.94 | 0.91 | 0.93 | 0.01 | 0.61 | 0.64 | 0.67 | 0.64 | 0.03 | 1.51 | 1.48 | 1.36 | 1.45 | 0.06 |
| 15-20 | 0.93 | 1.04 | 0.87 | 0.94 | 0.07 | 0.65 | 0.36 | 0.65 | 0.55 | 0.14 | 1.43 | 2.91 | 1.34 | 1.89 | 0.72 |
| 20-30 | 0.38 | 0.38 | 0.32 | 0.36 | 0.03 | 0.47 | 0.47 | 0.46 | 0.47 | 0.01 | 0.81 | 0.81 | 0.70 | 0.77 | 0.05 |
| 30-40 | 0.35 | 0.37 | 0.35 | 0.36 | 0.01 | 0.50 | 0.50 | 0.47 | 0.49 | 0.01 | 0.71 | 0.74 | 0.74 | 0.73 | 0.01 |



Table 60. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D20 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D20 | GPS | N 49.04205° | W 123.11592° | Date | Oct 27, 2003 | Time (PST) | 0435 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 7.35 | 21.62 | 19.19 | 16.05 | 6.23 | 4.53 | 12.52 | 12.80 | 9.95 | 3.83 | 1.62 | 1.73 | 1.50 | 1.62 | 0.09 |
| 1-2 | 18.33 | 21.62 | 18.88 | 19.61 | 1.44 | 10.21 | 12.21 | 12.49 | 11.64 | 1.02 | 1.80 | 1.77 | 1.51 | 1.69 | 0.13 |
| 2-3 | 17.30 | 24.36 | 21.32 | 20.99 | 2.89 | 9.52 | 15.62 | 16.21 | 13.78 | 3.02 | 1.82 | 1.56 | 1.32 | 1.56 | 0.20 |
| 3-4 | 26.49 | 17.33 | 17.39 | 20.40 | 4.31 | 17.80 | 12.85 | 13.03 | 14.56 | 2.29 | 1.49 | 1.35 | 1.33 | 1.39 | 0.07 |
| 4-5 | 16.54 | 15.17 | 17.27 | 16.32 | 0.87 | 11.67 | 14.42 | 12.97 | 13.02 | 1.13 | 1.42 | 1.05 | 1.33 | 1.27 | 0.16 |
| 5-10 | 8.22 | 7.67 | 5.06 | 6.98 | 1.38 | 6.91 | 6.11 | 5.40 | 6.14 | 0.62 | 1.19 | 1.26 | 0.94 | 1.13 | 0.14 |
| 10-15 | 7.74 | 7.07 | 5.30 | 6.70 | 1.03 | 6.04 | 4.68 | 4.30 | 5.01 | 0.75 | 1.28 | 1.51 | 1.23 | 1.34 | 0.12 |
| 15-20 | 7.07 | 6.27 | 4.75 | 6.03 | 0.96 | 5.18 | 4.06 | 3.62 | 4.28 | 0.66 | 1.36 | 1.54 | 1.31 | 1.41 | 0.10 |
| 20-30 | 2.62 | 3.05 | 2.34 | 2.67 | 0.29 | 2.24 | 2.61 | 2.55 | 2.47 | 0.16 | 1.17 | 1.16 | 0.92 | 1.08 | 0.12 |
| 30-40 | 2.31 | 2.50 | 1.43 | 2.08 | 0.47 | 2.02 | 2.61 | 1.98 | 2.20 | 0.29 | 1.14 | 0.96 | 0.72 | 0.94 | 0.17 |

Table 61. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D21 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D21 | GPS | N 49.03983° | W 123.11993° | Date | Oct 27, 2003 | Time (PST) | 0415 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 6.13 | 6.28 | 11.54 | 7.98 | 2.52 | 9.44 | 7.37 | 14.02 | 10.28 | 2.78 | 0.65 | 0.85 | 0.82 | 0.77 | 0.09 |
| 1-2 | 6.36 | 7.65 | 11.12 | 8.37 | 2.01 | 9.60 | 9.69 | 18.26 | 12.52 | 4.06 | 0.66 | 0.79 | 0.61 | 0.69 | 0.08 |
| 2-3 | 5.10 | 7.35 | 8.77 | 7.07 | 1.51 | 7.59 | 11.49 | 18.97 | 12.68 | 4.72 | 0.67 | 0.64 | 0.46 | 0.59 | 0.09 |
| 3-4 | 3.92 | 6.24 | 7.50 | 5.89 | 1.48 | 6.19 | 10.29 | 11.38 | 9.29 | 2.23 | 0.63 | 0.61 | 0.66 | 0.63 | 0.02 |
| 4-5 | 5.25 | 5.18 | 6.55 | 5.66 | 0.63 | 8.90 | 8.82 | 10.68 | 9.46 | 0.86 | 0.59 | 0.59 | 0.61 | 0.60 | 0.01 |
| 5-10 | 2.11 | 2.86 | 3.65 | 2.88 | 0.63 | 3.93 | 6.67 | 7.11 | 5.91 | 1.41 | 0.54 | 0.43 | 0.51 | 0.49 | 0.05 |
| 10-15 | 1.24 | 2.62 | 2.38 | 2.08 | 0.60 | 2.89 | 5.75 | 6.54 | 5.06 | 1.57 | 0.43 | 0.46 | 0.36 | 0.42 | 0.04 |
| 15-20 | 2.31 | 1.95 | 2.13 | 2.13 | 0.15 | 4.14 | 4.39 | 5.43 | 4.66 | 0.56 | 0.56 | 0.44 | 0.39 | 0.46 | 0.07 |
| 20-30 | 1.07 | 1.19 | 1.34 | 1.20 | 0.11 | 2.41 | 3.21 | 3.09 | 2.90 | 0.35 | 0.44 | 0.37 | 0.43 | 0.42 | 0.03 |
| 30-40 | 0.54 | 1.04 | 0.97 | 0.85 | 0.22 | 1.48 | 3.15 | 2.72 | 2.45 | 0.71 | 0.36 | 0.33 | 0.36 | 0.35 | 0.02 |



Table 62. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D22 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D22 | GPS | N 49.03707° | W 123.12370° | Date | Oct 27, 2003 | Time (PST) | 0350 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 37.15 | 34.72 | 31.67 | 34.51 | 2.24 | 30.51 | 29.87 | 29.54 | 29.98 | 0.41 | 1.22 | 1.16 | 1.07 | 1.15 | 0.06 |
| 1-2 | 27.71 | 38.07 | 36.85 | 34.21 | 4.62 | 22.73 | [illegible] | 38.51 | 30.07 | 6.49 | 1.22 | 1.31 | 0.96 | 1.16 | 0.15 |
| 2-3 | 28.32 | 31.67 | 35.33 | 31.77 | 2.86 | 22.74 | 27.69 | 28.34 | 26.26 | 2.50 | 1.25 | 1.14 | 1.25 | 1.21 | 0.05 |
| 3-4 | 28.93 | 27.41 | 34.41 | 30.25 | 3.01 | 20.90 | 31.34 | 28.95 | 27.06 | 4.47 | 1.38 | 0.87 | 1.19 | 1.15 | 0.21 |
| 4-5 | 28.93 | 31.37 | 31.37 | 30.55 | 1.15 | 21.82 | 39.38 | 28.00 | 29.73 | 7.27 | 1.33 | 0.80 | 1.12 | 1.08 | 0.22 |
| 5-10 | 12.00 | 9.87 | 8.83 | 10.23 | 1.32 | 11.38 | 15.05 | 13.68 | 13.37 | 1.51 | 1.05 | 0.66 | 0.65 | 0.79 | 0.19 |
| 10-15 | 9.01 | 6.27 | 6.82 | 7.37 | 1.18 | 11.10 | 10.27 | 10.53 | 10.63 | 0.35 | 0.81 | 0.61 | 0.65 | 0.69 | 0.09 |
| 15-20 | 7.13 | 4.87 | 6.33 | 6.11 | 0.93 | 8.44 | 7.00 | 10.77 | 8.73 | 1.55 | 0.84 | 0.70 | 0.59 | 0.71 | 0.11 |
| 20-30 | 2.50 | 1.67 | 3.14 | 2.44 | 0.60 | 4.21 | 4.35 | 5.20 | 4.59 | 0.44 | 0.59 | 0.38 | 0.60 | 0.53 | 0.10 |
| 30-40 | 1.61 | 1.28 | 1.86 | 1.58 | 0.24 | 3.98 | 4.26 | 4.14 | 4.13 | 0.11 | 0.41 | 0.30 | 0.45 | 0.38 | 0.06 |

Table 63. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D23 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D23 | GPS | N 49.03352° | W 123.12878° | Date | Oct 27, 2003 | Time (PST) | 0330 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 7.61 | 10.35 | 6.70 | 8.22 | 1.55 | 23.14 | 21.33 | 28.36 | 24.28 | 2.98 | 0.33 | 0.49 | 0.24 | 0.35 | 0.10 |
| 1-2 | 7.00 | 12.79 | 7.92 | 9.24 | 2.54 | 24.68 | 32.42 | 33.91 | 30.34 | 4.05 | 0.28 | 0.39 | 0.23 | 0.30 | 0.07 |
| 2-3 | 10.05 | 7.61 | 5.79 | 7.82 | 1.75 | 30.86 | 32.68 | 29.89 | 31.14 | 1.16 | 0.33 | 0.23 | 0.19 | 0.25 | 0.06 |
| 3-4 | 7.92 | 7.61 | 6.09 | 7.21 | 0.80 | 26.22 | 25.30 | 26.82 | 26.11 | 0.63 | 0.30 | 0.30 | 0.23 | 0.28 | 0.04 |
| 4-5 | 9.14 | 4.57 | 6.40 | 6.70 | 1.88 | 26.85 | 34.49 | 26.82 | 29.39 | 3.61 | 0.34 | 0.13 | 0.24 | 0.24 | 0.08 |
| 5-10 | 3.65 | 3.47 | 2.68 | 3.27 | 0.42 | 12.52 | 11.97 | 11.84 | 12.11 | 0.30 | 0.29 | 0.29 | 0.23 | 0.27 | 0.03 |
| 10-15 | 2.68 | 3.47 | 2.98 | 3.05 | 0.33 | 9.56 | 9.75 | 11.29 | 10.20 | 0.77 | 0.28 | 0.36 | 0.26 | 0.30 | 0.04 |
| 15-20 | 3.35 | 3.65 | 3.53 | 3.51 | 0.13 | 10.43 | 12.22 | 11.78 | 11.48 | 0.76 | 0.32 | 0.30 | 0.30 | 0.31 | 0.01 |
| 20-30 | 1.86 | 2.22 | 1.58 | 1.89 | 0.26 | 6.94 | 6.91 | 7.86 | 7.24 | 0.44 | 0.27 | 0.32 | 0.20 | 0.26 | 0.05 |
| 30-40 | 1.46 | 2.53 | 1.07 | 1.69 | 0.62 | 8.93 | 6.64 | 7.42 | 7.67 | 0.95 | 0.16 | 0.38 | 0.14 | 0.23 | 0.11 |

Table 64. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D24 located on Roberts Bank, British Columbia on October 27, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D24 | GPS | N 49.02997° | W 123.13472° | Date | Oct 27, 2003 | Time (PST) | 0300 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 7.31 | 18.88 | 3.35 | 9.85 | 6.59 | 44.98 | 123.53 | 39.10 | 69.20 | 38.49 | 0.16 | 0.15 | 0.09 | 0.13 | 0.03 |
| 1-2 | 14.01 | 17.05 | 4.26 | 11.78 | 5.46 | 73.65 | 105.67 | 35.72 | 71.68 | 28.59 | 0.19 | 0.16 | 0.12 | 0.16 | 0.03 |
| 2-3 | 4.57 | 14.01 | 4.57 | 7.71 | 4.45 | 43.72 | 114.25 | 46.80 | 68.26 | 32.55 | 0.10 | 0.12 | 0.10 | 0.11 | 0.01 |
| 3-4 | 6.09 | 10.66 | 4.87 | 7.21 | 2.49 | 59.42 | 91.46 | 37.88 | 62.92 | 22.01 | 0.10 | 0.12 | 0.13 | 0.12 | 0.01 |
| 4-5 | 4.26 | 11.27 | 6.70 | 7.41 | 2.90 | 48.95 | 63.78 | 35.13 | 49.29 | 11.70 | 0.09 | 0.18 | 0.19 | 0.15 | 0.05 |
| 5-10 | 3.78 | 5.79 | 2.98 | 4.18 | 1.18 | 22.68 | 28.42 | 17.32 | 22.80 | 4.53 | 0.17 | 0.20 | 0.17 | 0.18 | 0.02 |
| 10-15 | 3.11 | 3.35 | 3.05 | 3.17 | 0.13 | 24.27 | 24.64 | 16.27 | 21.73 | 3.86 | 0.13 | 0.14 | 0.19 | 0.15 | 0.03 |
| 15-20 | 3.53 | 2.68 | 2.50 | 2.90 | 0.45 | 23.53 | 21.74 | 17.93 | 21.07 | 2.34 | 0.15 | 0.12 | 0.14 | 0.14 | 0.01 |
| 20-30 | 1.92 | 1.98 | 1.22 | 1.71 | 0.35 | 11.18 | 12.38 | 9.76 | 11.11 | 1.07 | 0.17 | 0.16 | 0.12 | 0.15 | 0.02 |
| 30-40 | 1.55 | 2.31 | 1.40 | 1.76 | 0.40 | 8.47 | 8.70 | 8.66 | 8.61 | 0.10 | 0.18 | 0.27 | 0.16 | 0.20 | 0.04 |

Table 65. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E25 located on Roberts Bank, British Columbia on October 29, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E25 | GPS | N 49.03658° | W 123.10715° | Date | Oct 29, 2003 | Time (PST) | 2110 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 28.02 | 15.50 | 29.24 | 24.25 | 6.21 | 6.12 | 5.14 | 13.83 | 8.36 | 3.88 | 4.57 | 3.02 | 2.11 | 3.24 | 1.02 |
| 1-2 | 21.01 | 27.10 | 21.65 | 23.26 | 2.73 | 17.13 | 6.42 | 8.46 | 10.67 | 4.64 | 1.23 | 4.22 | 2.56 | 2.67 | 1.22 |
| 2-3 | 14.59 | 16.48 | 13.98 | 15.01 | 1.06 | 14.36 | 11.79 | 12.50 | 12.88 | 1.08 | 1.02 | 1.40 | 1.12 | 1.18 | 0.16 |
| 3-4 | 17.66 | 16.44 | 13.92 | 16.01 | 1.56 | 17.71 | 13.70 | 12.93 | 14.78 | 2.09 | 1.00 | 1.20 | 1.08 | 1.09 | 0.08 |
| 4-5 | 12.82 | 16.08 | 13.73 | 14.21 | 1.37 | 15.14 | 13.82 | 13.61 | 14.19 | 0.68 | 0.85 | 1.16 | 1.01 | 1.01 | 0.13 |
| 5-10 | 4.87 | 7.43 | 6.03 | 6.11 | 1.05 | 5.34 | 4.44 | 4.55 | 4.78 | 0.40 | 0.91 | 1.67 | 1.32 | 1.30 | 0.31 |
| 10-15 | 7.43 | 6.33 | 4.57 | 6.11 | 1.18 | 2.47 | 3.63 | 2.69 | 2.93 | 0.50 | 3.00 | 1.74 | 1.70 | 2.15 | 0.61 |
| 15-20 | 4.99 | 7.49 | 5.24 | 5.91 | 1.12 | 5.40 | 2.90 | 2.21 | 3.50 | 1.37 | 0.92 | 2.58 | 2.38 | 1.96 | 0.74 |
| 20-30 | 1.71 | 3.14 | 1.80 | 2.21 | 0.65 | 2.14 | 1.63 | 2.14 | 1.97 | 0.24 | 0.80 | 1.92 | 0.84 | 1.19 | 0.52 |
| 30-40 | 1.74 | 2.13 | 1.40 | 1.76 | 0.30 | 1.89 | 1.25 | 2.35 | 1.83 | 0.45 | 0.92 | 1.70 | 0.60 | 1.07 | 0.47 |



Table 66. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E26 located on Roberts Bank, British Columbia on October 29, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E26 | GPS | N 49.03443° | W 123.11097° | Date | Oct 29, 2003 | Time (PST) | 2150 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 13.95 | 12.76 | 10.47 | 12.39 | 1.44 | 9.18 | 8.80 | 4.68 | 7.55 | 2.04 | 1.52 | 1.45 | 2.24 | 1.74 | 0.36 |
| 1-2 | 18.58 | 19.22 | 22.23 | 20.01 | 1.59 | 7.57 | 8.74 | 12.53 | 9.61 | 2.12 | 2.45 | 2.20 | 1.77 | 2.14 | 0.28 |
| 2-3 | 20.07 | 16.69 | 21.01 | 19.26 | 1.86 | 7.34 | 11.36 | 11.28 | 9.99 | 1.88 | 2.74 | 1.47 | 1.86 | 2.02 | 0.53 |
| 3-4 | 18.91 | 15.17 | 15.62 | 16.57 | 1.67 | 10.59 | 10.12 | 11.97 | 10.89 | 0.79 | 1.79 | 1.50 | 1.31 | 1.53 | 0.20 |
| 4-5 | 17.51 | 12.70 | 13.22 | 14.48 | 2.16 | 10.02 | 12.31 | 14.34 | 12.22 | 1.77 | 1.75 | 1.03 | 0.92 | 1.23 | 0.37 |
| 5-10 | 7.98 | 5.60 | 4.69 | 6.09 | 1.39 | 4.75 | 7.62 | 5.95 | 6.11 | 1.18 | 1.68 | 0.74 | 0.79 | 1.07 | 0.43 |
| 10-15 | 7.07 | 6.94 | 5.48 | 6.50 | 0.72 | 6.71 | 3.08 | 6.39 | 5.40 | 1.64 | 1.05 | 2.25 | 0.86 | 1.39 | 0.62 |
| 15-20 | 5.24 | 2.74 | 3.05 | 3.67 | 1.11 | 6.82 | 3.96 | 4.52 | 5.10 | 1.24 | 0.77 | 0.69 | 0.67 | 0.71 | 0.04 |
| 20-30 | 1.71 | 1.07 | 1.19 | 1.32 | 0.28 | 2.75 | 2.23 | 2.72 | 2.57 | 0.24 | 0.62 | 0.48 | 0.44 | 0.51 | 0.08 |
| 30-40 | 0.65 | 1.37 | 0.54 | 0.86 | 0.37 | 1.25 | 2.69 | 1.57 | 1.84 | 0.62 | 0.52 | 0.51 | 0.34 | 0.46 | 0.08 |

Table 67. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E27 located on Roberts Bank, British Columbia on October 29, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E27 | GPS | N 49.03123° | W 123.11568° | Date | Oct 29, 2003 | Time (PST) | 2350 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 6.40 | 14.01 | 5.18 | 8.53 | 3.91 | 21.90 | 24.75 | 30.50 | 25.72 | 3.58 | 0.29 | 0.57 | 0.17 | 0.34 | 0.17 |
| 1-2 | 3.84 | 12.18 | 6.40 | 7.47 | 3.49 | 15.15 | 30.26 | 32.05 | 25.82 | 7.58 | 0.25 | 0.40 | 0.20 | 0.29 | 0.09 |
| 2-3 | 4.49 | 9.75 | 6.40 | 6.88 | 2.17 | 16.27 | 35.47 | 36.67 | 29.47 | 9.35 | 0.28 | 0.27 | 0.17 | 0.24 | 0.05 |
| 3-4 | 7.92 | 8.83 | 7.61 | 8.12 | 0.52 | 30.84 | 33.61 | 40.37 | 34.94 | 4.00 | 0.26 | 0.26 | 0.19 | 0.24 | 0.03 |
| 4-5 | 8.22 | 7.61 | 9.44 | 8.43 | 0.76 | 39.14 | 26.53 | 42.23 | 35.97 | 6.79 | 0.21 | 0.29 | 0.22 | 0.24 | 0.03 |
| 5-10 | 1.71 | 3.17 | 2.62 | 2.50 | 0.60 | 17.30 | 15.53 | 15.77 | 16.20 | 0.78 | 0.10 | 0.20 | 0.17 | 0.16 | 0.04 |
| 10-15 | 2.68 | 3.35 | 1.71 | 2.58 | 0.68 | 17.50 | 9.75 | 11.46 | 12.90 | 3.32 | 0.15 | 0.34 | 0.15 | 0.22 | 0.09 |
| 15-20 | 2.38 | 1.40 | 2.19 | 1.99 | 0.42 | 12.08 | 10.90 | 8.20 | 10.40 | 1.62 | 0.20 | 0.13 | 0.27 | 0.20 | 0.06 |
| 20-30 | 3.41 | 1.00 | 1.13 | 1.85 | 1.11 | 4.86 | 6.19 | 6.22 | 5.76 | 0.63 | 0.70 | 0.16 | 0.18 | 0.35 | 0.25 |
| 30-40 | 0.91 | 1.10 | 1.25 | 1.09 | 0.14 | 4.56 | 7.30 | 6.04 | 5.97 | 1.12 | 0.20 | 0.15 | 0.21 | 0.19 | 0.03 |



Table 68. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E28 located on Roberts Bank, British Columbia on October 29, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E28 | GPS | N 49.02823° | W 123.12062° | Date | Oct 29, 2003 | Time (PST) | 0050 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 5.79 | 6.09 | 30.45 | 14.11 | 11.56 | 33.58 | 39.12 | 63.97 | 45.56 | 13.21 | 0.17 | 0.16 | 0.48 | 0.27 | 0.15 |
| 1-2 | 10.96 | 7.92 | 6.70 | 8.53 | 1.79 | 29.94 | 41.91 | 35.44 | 35.76 | 4.89 | 0.37 | 0.19 | 0.19 | 0.25 | 0.08 |
| 2-3 | 6.09 | 10.96 | 20.10 | 12.38 | 5.81 | 48.04 | 57.01 | 54.95 | 53.34 | 3.84 | 0.13 | 0.19 | 0.37 | 0.23 | 0.10 |
| 3-4 | 14.01 | 8.53 | 7.92 | 10.15 | 2.74 | 46.58 | 59.45 | 53.29 | 53.11 | 5.25 | 0.30 | 0.14 | 0.15 | 0.20 | 0.07 |
| 4-5 | 6.70 | 19.19 | 11.57 | 12.49 | 5.14 | 48.05 | 46.02 | 47.48 | 47.18 | 0.85 | 0.14 | 0.42 | 0.24 | 0.27 | 0.11 |
| 5-10 | 5.66 | 13.11 | 4.45 | 7.74 | 3.83 | 20.97 | 22.87 | 24.90 | 22.91 | 1.60 | 0.27 | 0.57 | 0.18 | 0.34 | 0.17 |
| 10-15 | 4.32 | 5.24 | 3.72 | 4.43 | 0.63 | 23.48 | 20.66 | 23.29 | 22.48 | 1.29 | 0.18 | 0.25 | 0.16 | 0.20 | 0.04 |
| 15-20 | 3.90 | 3.53 | 4.08 | 3.84 | 0.23 | 22.49 | 21.44 | 25.75 | 23.23 | 1.84 | 0.17 | 0.16 | 0.16 | 0.17 | 0.01 |
| 20-30 | 2.62 | 1.28 | 1.55 | 1.82 | 0.58 | 8.64 | 8.84 | 11.09 | 9.52 | 1.11 | 0.30 | 0.14 | 0.14 | 0.20 | 0.08 |
| 30-40 | 2.38 | 1.40 | 1.61 | 1.80 | 0.42 | 5.81 | 7.27 | 12.07 | 8.38 | 2.68 | 0.41 | 0.19 | 0.13 | 0.25 | 0.12 |

Table 69. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F30 located on Roberts Bank, British Columbia on October 29, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F30 | GPS | N 49.03352° | W 123.10128° | Date | Oct 29, 2003 | Time (PST) | 2045 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 38.98 | 17.66 | 22.23 | 26.29 | 9.16 | 60.37 | 28.78 | 34.98 | 41.38 | 13.67 | 0.65 | 0.61 | 0.64 | 0.63 | 0.01 |
| 1-2 | 17.36 | 18.88 | 17.05 | 17.76 | 0.80 | 34.62 | 34.95 | 31.24 | 33.60 | 1.68 | 0.50 | 0.54 | 0.55 | 0.53 | 0.02 |
| 2-3 | 23.14 | 33.50 | 21.32 | 25.99 | 5.36 | 46.06 | 62.47 | 55.88 | 54.80 | 6.74 | 0.50 | 0.54 | 0.38 | 0.47 | 0.07 |
| 3-4 | 10.96 | 18.27 | 21.01 | 16.75 | 4.24 | 40.71 | 34.94 | 59.88 | 45.18 | 10.66 | 0.27 | 0.52 | 0.35 | 0.38 | 0.11 |
| 4-5 | 19.19 | 29.54 | 24.67 | 24.46 | 4.23 | 47.56 | 58.12 | 68.84 | 58.17 | 8.69 | 0.40 | 0.51 | 0.36 | 0.42 | 0.06 |
| 5-10 | 8.53 | 8.34 | 9.62 | 8.83 | 0.56 | 16.51 | 17.80 | 19.97 | 18.09 | 1.43 | 0.52 | 0.47 | 0.48 | 0.49 | 0.02 |
| 10-15 | 7.43 | 5.85 | 8.53 | 7.27 | 1.10 | 18.84 | 13.04 | 21.12 | 17.67 | 3.40 | 0.39 | 0.45 | 0.40 | 0.42 | 0.02 |
| 15-20 | 0.88 | 5.85 | 6.09 | 4.27 | 2.40 | 2.72 | 11.07 | 14.02 | 9.27 | 4.79 | 0.32 | 0.53 | 0.43 | 0.43 | 0.08 |
| 20-30 | 3.53 | 2.83 | 2.62 | 2.99 | 0.39 | 3.57 | 8.21 | 4.42 | 5.40 | 2.02 | 0.99 | 0.34 | 0.59 | 0.64 | 0.27 |
| 30-40 | 2.92 | 2.59 | 2.56 | 2.69 | 0.17 | 4.03 | 5.38 | 4.27 | 4.56 | 0.59 | 0.73 | 0.48 | 0.60 | 0.60 | 0.10 |



Table 70. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F31 located on Roberts Bank, British Columbia on October 29, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F31 | GPS | N 49.03058° | W 123.10497° | Date | Oct 29, 2003 | Time (PST) | 2215 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 12.30 | 16.66 | 17.97 | 15.64 | 2.42 | 11.26 | 12.96 | 14.94 | 13.05 | 1.51 | 1.09 | 1.29 | 1.20 | 1.19 | 0.08 |
| 1-2 | 21.93 | 23.45 | 25.28 | 23.55 | 1.37 | 14.37 | 14.08 | 14.09 | 14.18 | 0.13 | 1.53 | 1.67 | 1.79 | 1.66 | 0.11 |
| 2-3 | 28.02 | 31.67 | 33.19 | 30.96 | 2.17 | 21.50 | 15.39 | 15.40 | 17.43 | 2.88 | 1.30 | 2.06 | 2.16 | 1.84 | 0.38 |
| 3-4 | 25.89 | 33.19 | 29.54 | 29.54 | 2.98 | 22.40 | 14.79 | 13.83 | 17.01 | 3.84 | 1.16 | 2.24 | 2.14 | 1.85 | 0.49 |
| 4-5 | 26.80 | 27.41 | 31.37 | 28.52 | 2.03 | 24.57 | 14.73 | 20.92 | 20.07 | 4.06 | 1.09 | 1.86 | 1.50 | 1.48 | 0.31 |
| 5-10 | 8.10 | 11.76 | 9.56 | 9.81 | 1.50 | 11.28 | 8.85 | 10.06 | 10.06 | 0.99 | 0.72 | 1.33 | 0.95 | 1.00 | 0.25 |
| 10-15 | 8.10 | 6.46 | 7.25 | 7.27 | 0.67 | 9.62 | 7.57 | 9.18 | 8.79 | 0.88 | 0.84 | 0.85 | 0.79 | 0.83 | 0.03 |
| 15-20 | 5.85 | 4.20 | 5.42 | 5.16 | 0.70 | 7.50 | 6.75 | 8.42 | 7.56 | 0.68 | 0.78 | 0.62 | 0.64 | 0.68 | 0.07 |
| 20-30 | 2.10 | 1.77 | 2.01 | 1.96 | 0.14 | 4.11 | 4.54 | 4.73 | 4.46 | 0.26 | 0.51 | 0.39 | 0.43 | 0.44 | 0.05 |
| 30-40 | 1.61 | 1.55 | 1.49 | 1.55 | 0.05 | 3.95 | 3.52 | 3.52 | 3.67 | 0.20 | 0.41 | 0.44 | 0.42 | 0.42 | 0.01 |

Table 71. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F32 located on Roberts Bank, British Columbia on October 29, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F32 | GPS | N 49.02772° | W 123.10933° | Date | Oct 29, 2003 | Time (PST) | 2320 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 15.23 | 11.57 | 14.62 | 13.81 | 1.60 | 40.14 | 20.72 | 32.13 | 31.00 | 7.97 | 0.38 | 0.56 | 0.45 | 0.46 | 0.07 |
| 1-2 | 14.92 | 17.97 | 16.75 | 16.55 | 1.25 | 24.45 | 30.01 | 34.00 | 29.49 | 3.92 | 0.61 | 0.60 | 0.49 | 0.57 | 0.05 |
| 2-3 | 20.10 | 17.97 | 18.58 | 18.88 | 0.90 | 34.34 | 29.09 | 28.48 | 30.64 | 2.63 | 0.59 | 0.62 | 0.65 | 0.62 | 0.03 |
| 3-4 | 24.67 | 25.89 | 26.19 | 25.58 | 0.66 | 41.46 | 41.78 | 46.09 | 43.11 | 2.11 | 0.59 | 0.62 | 0.57 | 0.59 | 0.02 |
| 4-5 | 26.19 | 23.45 | 20.10 | 23.25 | 2.49 | 41.17 | 38.99 | 37.11 | 39.09 | 1.66 | 0.64 | 0.60 | 0.54 | 0.59 | 0.04 |
| 5-10 | 7.92 | 7.31 | 5.54 | 6.92 | 1.01 | 15.15 | 15.82 | 13.96 | 14.98 | 0.77 | 0.52 | 0.46 | 0.40 | 0.46 | 0.05 |
| 10-15 | 4.87 | 5.60 | 6.09 | 5.52 | 0.50 | 13.77 | 11.93 | 10.76 | 12.15 | 1.24 | 0.35 | 0.47 | 0.57 | 0.46 | 0.09 |
| 15-20 | 4.93 | 3.47 | 5.06 | 4.49 | 0.72 | 12.78 | 11.05 | 12.66 | 12.16 | 0.79 | 0.39 | 0.31 | 0.40 | 0.37 | 0.04 |
| 20-30 | 1.61 | 1.31 | 1.16 | 1.36 | 0.19 | 6.84 | 4.20 | 4.23 | 5.09 | 1.24 | 0.24 | 0.31 | 0.27 | 0.27 | 0.03 |
| 30-40 | 1.19 | 1.04 | 1.00 | 1.08 | 0.08 | 5.70 | 4.41 | 3.58 | 4.56 | 0.87 | 0.21 | 0.23 | 0.28 | 0.24 | 0.03 |



Table 72. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F33 located on Roberts Bank, British Columbia on October 29, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F33 | GPS | N 49.02410° | W 123.11433° | Date | Oct 29, 2003 | Time (PST) | 0120 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 8.22 | 7.61 | 7.92 | 7.92 | 0.25 | 29.30 | 30.22 | 31.76 | 30.43 | 1.01 | 0.28 | 0.25 | 0.25 | 0.26 | 0.01 |
| 1-2 | 8.53 | 13.70 | 10.35 | 10.86 | 2.14 | 33.61 | 40.43 | 40.40 | 38.15 | 3.21 | 0.25 | 0.34 | 0.26 | 0.28 | 0.04 |
| 2-3 | 10.66 | 8.53 | 7.92 | 9.03 | 1.18 | 46.24 | 41.92 | 37.30 | 41.82 | 3.65 | 0.23 | 0.20 | 0.21 | 0.22 | 0.01 |
| 3-4 | 10.96 | 10.05 | 15.84 | 12.28 | 2.54 | 59.47 | 54.23 | 58.29 | 57.33 | 2.24 | 0.18 | 0.19 | 0.27 | 0.21 | 0.04 |
| 4-5 | 12.79 | 15.53 | 17.97 | 15.43 | 2.11 | 43.80 | 59.83 | 46.01 | 49.88 | 7.09 | 0.29 | 0.26 | 0.39 | 0.31 | 0.06 |
| 5-10 | 3.96 | 4.57 | 4.39 | 4.30 | 0.26 | 16.71 | 17.64 | 18.44 | 17.60 | 0.71 | 0.24 | 0.26 | 0.24 | 0.24 | 0.01 |
| 10-15 | 3.17 | 4.32 | 2.98 | 3.49 | 0.59 | 16.33 | 16.53 | 12.09 | 14.98 | 2.05 | 0.19 | 0.26 | 0.25 | 0.23 | 0.03 |
| 15-20 | 3.47 | 4.26 | 2.80 | 3.51 | 0.60 | 15.35 | 13.64 | 11.84 | 13.61 | 1.43 | 0.23 | 0.31 | 0.24 | 0.26 | 0.04 |
| 20-30 | 1.74 | 2.16 | 1.55 | 1.82 | 0.26 | 7.06 | 7.96 | 6.72 | 7.25 | 0.52 | 0.25 | 0.27 | 0.23 | 0.25 | 0.02 |
| 30-40 | 1.52 | 1.71 | 2.28 | 1.84 | 0.32 | 6.41 | 5.95 | 5.65 | 6.01 | 0.31 | 0.24 | 0.29 | 0.40 | 0.31 | 0.07 |

Table 73. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A2 located on Roberts Bank, British Columbia on December 22, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A2 | GPS | N 49.11190° | W 123.22265° | Date | Dec 22, 2003 | Time (PST) | 1940 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 15.50 | 14.01 | 14.92 | 14.81 | 0.61 | 11.29 | 19.83 | 13.07 | 14.73 | 3.68 | 1.37 | 0.71 | 1.14 | 1.07 | 0.28 |
| 1-2 | 14.34 | 14.68 | 15.53 | 14.85 | 0.50 | 15.15 | 11.71 | 18.92 | 15.26 | 2.94 | 0.95 | 1.25 | 0.82 | 1.01 | 0.18 |
| 2-3 | 16.75 | 13.09 | 19.79 | 16.55 | 2.74 | 18.01 | 24.12 | 29.11 | 23.75 | 4.54 | 0.93 | 0.54 | 0.68 | 0.72 | 0.16 |
| 3-4 | 15.23 | 20.71 | 20.10 | 18.68 | 2.45 | 32.76 | 43.27 | 44.80 | 40.27 | 5.35 | 0.46 | 0.48 | 0.45 | 0.46 | 0.01 |
| 4-5 | 14.31 | 17.05 | 12.79 | 14.72 | 1.76 | 31.82 | 47.85 | 39.19 | 39.62 | 6.55 | 0.45 | 0.36 | 0.33 | 0.38 | 0.05 |
| 5-10 | 6.58 | 6.70 | 4.51 | 5.93 | 1.01 | 17.11 | 23.63 | 13.58 | 18.10 | 4.16 | 0.38 | 0.28 | 0.33 | 0.33 | 0.04 |
| 10-15 | 5.42 | 5.54 | 5.18 | 5.38 | 0.15 | 16.97 | 11.80 | 11.25 | 13.34 | 2.58 | 0.32 | 0.47 | 0.46 | 0.42 | 0.07 |
| 15-20 | 10.42 | 14.13 | 9.93 | 11.49 | 1.88 | 10.99 | 36.07 | 12.96 | 20.01 | 11.39 | 0.95 | 0.39 | 0.77 | 0.70 | 0.23 |
| 20-30 | 5.15 | 3.23 | 1.64 | 3.34 | 1.43 | 8.14 | 7.17 | 4.23 | 6.51 | 1.66 | 0.63 | 0.45 | 0.39 | 0.49 | 0.10 |
| 30-40 | 3.11 | 4.02 | 1.49 | 2.87 | 1.05 | 9.20 | 10.65 | 5.03 | 8.29 | 2.38 | 0.34 | 0.38 | 0.30 | 0.34 | 0.03 |

Table 74. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A3 located on Roberts Bank, British Columbia on December 22, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A3 | GPS | N 49.10980° | W 123.22623° | Date | Dec 22, 2003 | Time (PST) | 1955 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 24.06 | 18.88 | 16.75 | 19.90 | 3.07 | 28.54 | 24.80 | 21.70 | 25.01 | 2.80 | 0.84 | 0.76 | 0.77 | 0.79 | 0.04 |
| 1-2 | 20.40 | 24.06 | 23.45 | 22.64 | 1.60 | 27.27 | 30.08 | 22.38 | 26.58 | 3.18 | 0.75 | 0.80 | 1.05 | 0.87 | 0.13 |
| 2-3 | 17.66 | 31.37 | 17.66 | 22.23 | 6.46 | 25.09 | 36.61 | 24.17 | 28.62 | 5.66 | 0.70 | 0.86 | 0.73 | 0.76 | 0.07 |
| 3-4 | 17.05 | 19.49 | 18.27 | 18.27 | 0.99 | 28.78 | 24.19 | 25.10 | 26.02 | 1.98 | 0.59 | 0.81 | 0.73 | 0.71 | 0.09 |
| 4-5 | 19.19 | 24.36 | 20.10 | 21.22 | 2.26 | 28.18 | 36.85 | 27.27 | 30.77 | 4.32 | 0.68 | 0.66 | 0.74 | 0.69 | 0.03 |
| 5-10 | 5.30 | 6.03 | 5.24 | 5.52 | 0.36 | 8.23 | 9.16 | 6.88 | 8.09 | 0.94 | 0.64 | 0.66 | 0.76 | 0.69 | 0.05 |
| 10-15 | 3.53 | 2.38 | 5.36 | 3.76 | 1.23 | 6.62 | 4.82 | 8.85 | 6.76 | 1.65 | 0.53 | 0.49 | 0.61 | 0.54 | 0.05 |
| 15-20 | 3.41 | 2.31 | 2.74 | 2.82 | 0.45 | 6.99 | 6.11 | 6.18 | 6.43 | 0.40 | 0.49 | 0.38 | 0.44 | 0.44 | 0.05 |
| 20-30 | 2.68 | 1.58 | 1.16 | 1.81 | 0.64 | 6.12 | 4.75 | 4.01 | 4.96 | 0.87 | 0.44 | 0.33 | 0.29 | 0.35 | 0.06 |
| 30-40 | 2.89 | 2.25 | 3.84 | 2.99 | 0.65 | 6.61 | 6.51 | 9.30 | 7.47 | 1.29 | 0.44 | 0.35 | 0.41 | 0.40 | 0.04 |

Table 75. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A4 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A4 | GPS | N 49.10167° | W 123.24248° | Date | Dec 23, 2003 | Time (PST) | 0040 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 4.42 | 4.64 | 4.61 | 4.56 | 0.10 | 10.89 | 11.12 | 13.85 | 11.95 | 1.34 | 0.41 | 0.42 | 0.33 | 0.39 | 0.04 |
| 1-2 | 4.34 | 5.75 | 4.83 | 4.97 | 0.58 | 12.27 | 13.28 | 12.01 | 12.52 | 0.55 | 0.35 | 0.43 | 0.40 | 0.40 | 0.03 |
| 2-3 | 3.69 | 7.92 | 4.30 | 5.30 | 1.86 | 10.92 | 23.46 | 12.08 | 15.48 | 5.66 | 0.34 | 0.34 | 0.36 | 0.34 | 0.01 |
| 3-4 | 4.04 | 5.10 | 4.76 | 4.63 | 0.44 | 11.11 | 13.70 | 13.31 | 12.71 | 1.14 | 0.36 | 0.37 | 0.36 | 0.36 | 0.01 |
| 4-5 | 4.04 | 5.82 | 4.87 | 4.91 | 0.73 | 11.50 | 14.44 | 13.54 | 13.16 | 1.23 | 0.35 | 0.40 | 0.36 | 0.37 | 0.02 |
| 5-10 | 1.71 | 2.92 | 2.44 | 2.36 | 0.50 | 7.15 | 6.55 | 6.79 | 6.83 | 0.25 | 0.24 | 0.45 | 0.36 | 0.35 | 0.09 |
| 10-15 | 0.85 | 1.16 | 1.77 | 1.26 | 0.38 | 2.62 | 2.79 | 5.74 | 3.72 | 1.43 | 0.32 | 0.42 | 0.31 | 0.35 | 0.05 |
| 15-20 | 1.12 | 0.84 | 2.44 | 1.46 | 0.70 | 2.57 | 2.01 | 7.53 | 4.04 | 2.48 | 0.44 | 0.42 | 0.32 | 0.39 | 0.05 |
| 20-30 | 0.45 | 0.72 | 0.53 | 0.57 | 0.11 | 1.18 | 1.12 | 1.52 | 1.27 | 0.17 | 0.38 | 0.64 | 0.35 | 0.46 | 0.13 |
| 30-40 | 0.45 | 0.56 | 0.38 | 0.46 | 0.07 | 1.25 | 1.27 | 1.20 | 1.24 | 0.03 | 0.36 | 0.44 | 0.31 | 0.37 | 0.05 |

Table 76. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A5 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A5 | GPS | N 49.09358° | W 123.26085° | Date | Dec 23, 2003 | Time (PST) | 0020 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 5.14 | 3.39 | 6.93 | 5.15 | 1.45 | 1.94 | 1.80 | 3.11 | 2.28 | 0.59 | 2.66 | 1.88 | 2.23 | 2.26 | 0.32 |
| 1-2 | 4.49 | 3.01 | 6.01 | 4.50 | 1.23 | 1.74 | 1.72 | 2.56 | 2.01 | 0.39 | 2.59 | 1.75 | 2.35 | 2.23 | 0.35 |
| 2-3 | 4.57 | 2.89 | 5.94 | 4.47 | 1.25 | 1.93 | 1.68 | 2.60 | 2.07 | 0.39 | 2.37 | 1.72 | 2.29 | 2.12 | 0.29 |
| 3-4 | 4.87 | 2.15 | 5.94 | 4.32 | 1.60 | 3.24 | 1.49 | 2.64 | 2.46 | 0.73 | 1.50 | 1.44 | 2.25 | 1.73 | 0.37 |
| 4-5 | 3.88 | 2.15 | 5.06 | 3.70 | 1.19 | 3.19 | 1.51 | 1.86 | 2.19 | 0.72 | 1.22 | 1.42 | 2.73 | 1.79 | 0.67 |
| 5-10 | 1.15 | 0.72 | 1.82 | 1.23 | 0.45 | 2.12 | 0.78 | 1.27 | 1.39 | 0.55 | 0.54 | 0.92 | 1.43 | 0.97 | 0.36 |
| 10-15 | 0.78 | 0.71 | 0.84 | 0.77 | 0.05 | 0.86 | 0.78 | 1.15 | 0.93 | 0.16 | 0.90 | 0.91 | 0.73 | 0.85 | 0.09 |
| 15-20 | 0.79 | 0.69 | 0.84 | 0.77 | 0.06 | 0.75 | 0.72 | 1.12 | 0.87 | 0.18 | 1.05 | 0.95 | 0.75 | 0.91 | 0.13 |
| 20-30 | 0.42 | 0.26 | 0.26 | 0.31 | 0.08 | 0.52 | 0.76 | 0.71 | 0.66 | 0.10 | 0.81 | 0.34 | 0.37 | 0.50 | 0.21 |
| 30-40 | 0.33 | 0.36 | 0.37 | 0.35 | 0.02 | 0.63 | 0.67 | 0.54 | 0.61 | 0.05 | 0.53 | 0.54 | 0.68 | 0.58 | 0.07 |

Table 77. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A6 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A6 | GPS | N 49.08555° | W 123.28115° | Date | Dec 23, 2003 | Time (PST) | 0005 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 0.66 | 0.62 | 0.77 | 0.68 | 0.07 | 0.96 | 0.86 | 0.93 | 0.92 | 0.04 | 0.68 | 0.72 | 0.83 | 0.74 | 0.06 |
| 1-2 | 0.60 | 0.69 | 0.77 | 0.69 | 0.07 | 0.82 | 1.01 | 0.98 | 0.94 | 0.08 | 0.73 | 0.68 | 0.79 | 0.74 | 0.04 |
| 2-3 | 0.78 | 0.72 | 0.76 | 0.75 | 0.03 | 1.11 | 1.04 | 0.90 | 1.02 | 0.08 | 0.71 | 0.69 | 0.84 | 0.75 | 0.07 |
| 3-4 | 0.67 | 0.74 | 0.81 | 0.74 | 0.06 | 0.80 | 1.06 | 0.89 | 0.92 | 0.11 | 0.83 | 0.70 | 0.91 | 0.82 | 0.09 |
| 4-5 | 1.14 | 0.63 | 1.17 | 0.98 | 0.25 | 1.27 | 0.69 | 1.53 | 1.16 | 0.35 | 0.90 | 0.92 | 0.77 | 0.86 | 0.07 |
| 5-10 | 0.40 | 0.41 | 0.47 | 0.43 | 0.03 | 0.57 | 0.54 | 0.67 | 0.59 | 0.05 | 0.71 | 0.76 | 0.71 | 0.73 | 0.02 |
| 10-15 | 0.25 | 0.46 | 0.47 | 0.39 | 0.10 | 0.43 | 0.47 | 0.45 | 0.45 | 0.02 | 0.57 | 0.98 | 1.05 | 0.87 | 0.21 |
| 15-20 | 0.09 | 0.14 | 0.11 | 0.11 | 0.02 | 0.34 | 0.46 | 0.45 | 0.42 | 0.06 | 0.26 | 0.31 | 0.24 | 0.27 | 0.03 |
| 20-30 | 0.05 | 0.06 | 0.05 | 0.05 | 0.00 | 0.24 | 0.27 | 0.21 | 0.24 | 0.02 | 0.19 | 0.21 | 0.25 | 0.21 | 0.03 |
| 30-40 | 0.04 | 0.04 | 0.02 | 0.03 | 0.01 | 0.27 | 0.27 | 0.35 | 0.30 | 0.04 | 0.15 | 0.15 | 0.05 | 0.12 | 0.05 |



Table 78. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B10 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B10 | GPS | N 49.07933° | W 123.19400° | Date | Dec 23, 2003 | Time (PST) | 2030 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 7.89 | 21.62 | 16.44 | 15.32 | 5.66 | 22.29 | 16.21 | 32.46 | 23.65 | 6.70 | 0.35 | 1.33 | 0.51 | 0.73 | 0.43 |
| 1-2 | 21.62 | 40.20 | 39.59 | 33.80 | 8.62 | 20.82 | 17.32 | 18.85 | 19.00 | 1.43 | 1.04 | 2.32 | 2.10 | 1.82 | 0.56 |
| 2-3 | 34.41 | 42.63 | 43.85 | 40.30 | 4.19 | 20.95 | 29.34 | 18.28 | 22.86 | 4.71 | 1.64 | 1.45 | 2.40 | 1.83 | 0.41 |
| 3-4 | 30.45 | 31.98 | 37.15 | 33.19 | 2.87 | 13.84 | 26.16 | 18.83 | 19.61 | 5.06 | 2.20 | 1.22 | 1.97 | 1.80 | 0.42 |
| 4-5 | 37.46 | 33.80 | 45.68 | 38.98 | 4.97 | 25.90 | 32.94 | 18.91 | 25.92 | 5.73 | 1.45 | 1.03 | 2.42 | 1.63 | 0.58 |
| 5-10 | 11.51 | 14.01 | 10.60 | 12.04 | 1.44 | 8.97 | 7.46 | 5.09 | 7.17 | 1.60 | 1.28 | 1.88 | 2.08 | 1.75 | 0.34 |
| 10-15 | 13.16 | 16.14 | 13.83 | 14.37 | 1.28 | 8.37 | 5.88 | 6.72 | 6.99 | 1.04 | 1.57 | 2.74 | 2.06 | 2.12 | 0.48 |
| 15-20 | 8.59 | 10.90 | 14.07 | 11.19 | 2.25 | 5.50 | 4.91 | 5.12 | 5.18 | 0.24 | 1.56 | 2.22 | 2.75 | 2.18 | 0.48 |
| 20-30 | 3.53 | 2.41 | 4.17 | 3.37 | 0.73 | 2.43 | 1.93 | 2.29 | 2.22 | 0.21 | 1.45 | 1.25 | 1.82 | 1.51 | 0.24 |
| 30-40 | 2.10 | 0.52 | 0.80 | 1.14 | 0.69 | 1.62 | 0.91 | 0.98 | 1.17 | 0.32 | 1.30 | 0.57 | 0.82 | 0.89 | 0.30 |

Table 79. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B11 located on Roberts Bank, British Columbia on December 22, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B11 | GPS | N 49.07055° | W 123.21350° | Date | Dec 22, 2003 | Time (PST) | 2110 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 6.97 | 6.36 | 7.58 | 6.97 | 0.50 | 1.72 | 1.87 | 2.31 | 1.97 | 0.25 | 4.04 | 3.40 | 3.29 | 3.58 | 0.33 |
| 1-2 | 8.22 | 6.89 | 6.89 | 7.33 | 0.63 | 2.08 | 2.18 | 2.18 | 2.15 | 0.05 | 3.95 | 3.16 | 3.16 | 3.42 | 0.37 |
| 2-3 | 8.07 | 6.85 | 6.47 | 7.13 | 0.68 | 2.43 | 2.03 | 2.03 | 2.16 | 0.19 | 3.33 | 3.38 | 3.19 | 3.30 | 0.08 |
| 3-4 | 7.54 | 6.66 | 6.36 | 6.85 | 0.50 | 2.11 | 1.84 | 2.68 | 2.21 | 0.35 | 3.57 | 3.63 | 2.37 | 3.19 | 0.58 |
| 4-5 | 6.40 | 6.28 | 6.32 | 6.33 | 0.05 | 1.99 | 1.83 | 2.49 | 2.10 | 0.28 | 3.22 | 3.43 | 2.54 | 3.06 | 0.38 |
| 5-10 | 2.95 | 1.98 | 4.08 | 3.00 | 0.86 | 2.01 | 1.23 | 2.50 | 1.91 | 0.52 | 1.47 | 1.61 | 1.63 | 1.57 | 0.07 |
| 10-15 | 2.94 | 1.85 | 4.20 | 3.00 | 0.96 | 3.13 | 1.57 | 7.18 | 3.96 | 2.36 | 0.94 | 1.18 | 0.59 | 0.90 | 0.24 |
| 15-20 | 4.14 | 4.75 | 4.08 | 4.32 | 0.30 | 4.16 | 5.52 | 3.42 | 4.37 | 0.87 | 0.99 | 0.86 | 1.19 | 1.02 | 0.14 |
| 20-30 | 2.19 | 2.59 | 1.55 | 2.11 | 0.43 | 1.78 | 3.96 | 4.04 | 3.26 | 1.05 | 1.24 | 0.65 | 0.38 | 0.76 | 0.36 |
| 30-40 | 2.34 | 2.10 | 1.52 | 1.99 | 0.34 | 1.44 | 1.84 | 1.95 | 1.74 | 0.22 | 1.63 | 1.14 | 0.78 | 1.18 | 0.35 |

Table 80. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B12 located on Roberts Bank, British Columbia on December 22, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B12 | GPS | N 49.06262° | W 123.22867° | Date | Dec 22, 2003 | Time (PST) | 2150 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 2.97 | 2.78 | 2.89 | 2.88 | 0.08 | 1.26 | 1.53 | 1.30 | 1.36 | 0.12 | 2.36 | 1.82 | 2.23 | 2.14 | 0.23 |
| 1-2 | 4.19 | 3.20 | 4.26 | 3.88 | 0.49 | 1.70 | 1.69 | 1.54 | 1.64 | 0.07 | 2.47 | 1.90 | 2.76 | 2.38 | 0.36 |
| 2-3 | 3.20 | 3.65 | 4.38 | 3.74 | 0.49 | 1.30 | 1.96 | 1.85 | 1.70 | 0.29 | 2.46 | 1.87 | 2.37 | 2.23 | 0.26 |
| 3-4 | 2.44 | 3.24 | 5.36 | 3.68 | 1.23 | 1.29 | 1.30 | 2.73 | 1.77 | 0.68 | 1.88 | 2.49 | 1.96 | 2.11 | 0.27 |
| 4-5 | 2.00 | 2.28 | 4.11 | 2.80 | 0.94 | 1.17 | 1.56 | 1.93 | 1.55 | 0.31 | 1.70 | 1.46 | 2.14 | 1.77 | 0.28 |
| 5-10 | 0.57 | 0.43 | 0.85 | 0.61 | 0.17 | 0.60 | 0.59 | 0.82 | 0.67 | 0.11 | 0.96 | 0.72 | 1.04 | 0.91 | 0.13 |
| 10-15 | 0.44 | 0.40 | 0.49 | 0.44 | 0.03 | 0.50 | 0.59 | 0.77 | 0.62 | 0.11 | 0.88 | 0.69 | 0.64 | 0.73 | 0.10 |
| 15-20 | 0.40 | 0.37 | 0.43 | 0.40 | 0.02 | 0.51 | 0.59 | 0.67 | 0.59 | 0.07 | 0.79 | 0.63 | 0.63 | 0.69 | 0.07 |
| 20-30 | 0.17 | 0.15 | 0.21 | 0.18 | 0.02 | 0.35 | 0.36 | 0.40 | 0.37 | 0.02 | 0.49 | 0.42 | 0.52 | 0.48 | 0.04 |
| 30-40 | 0.22 | 0.22 | 0.20 | 0.21 | 0.01 | 0.41 | 0.39 | 0.37 | 0.39 | 0.02 | 0.52 | 0.57 | 0.54 | 0.54 | 0.02 |

Table 81. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B13 located on Roberts Bank, British Columbia on December 22, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B13 | GPS | N 49.05370° | W 123.24553° | Date | Dec 22, 2003 | Time (PST) | 2235 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 1.16 | 1.22 | 1.28 | 1.22 | 0.05 | 0.87 | 1.16 | 1.04 | 1.02 | 0.12 | 1.34 | 1.05 | 1.23 | 1.21 | 0.12 |
| 1-2 | 1.01 | 1.40 | 1.14 | 1.19 | 0.16 | 0.72 | 1.29 | 0.79 | 0.93 | 0.26 | 1.41 | 1.09 | 1.45 | 1.32 | 0.16 |
| 2-3 | 0.95 | 1.44 | 1.02 | 1.14 | 0.21 | 0.71 | 1.15 | 0.69 | 0.85 | 0.22 | 1.35 | 1.25 | 1.49 | 1.36 | 0.10 |
| 3-4 | 1.55 | 1.55 | 1.11 | 1.40 | 0.21 | 0.92 | 1.12 | 0.76 | 0.93 | 0.15 | 1.68 | 1.39 | 1.47 | 1.51 | 0.12 |
| 4-5 | 1.29 | 1.52 | 1.16 | 1.32 | 0.15 | 0.65 | 1.14 | 0.81 | 0.87 | 0.20 | 1.99 | 1.33 | 1.43 | 1.58 | 0.29 |
| 5-10 | 0.75 | 0.71 | 0.69 | 0.72 | 0.03 | 0.42 | 0.63 | 0.46 | 0.50 | 0.09 | 1.82 | 1.12 | 1.50 | 1.48 | 0.28 |
| 10-15 | 0.91 | 0.65 | 0.68 | 0.75 | 0.12 | 0.49 | 0.60 | 0.50 | 0.53 | 0.05 | 1.88 | 1.08 | 1.36 | 1.44 | 0.33 |
| 15-20 | 1.04 | 0.52 | 0.53 | 0.69 | 0.24 | 0.58 | 0.58 | 0.47 | 0.54 | 0.05 | 1.79 | 0.89 | 1.13 | 1.27 | 0.38 |
| 20-30 | 0.14 | 0.11 | 0.11 | 0.12 | 0.02 | 0.30 | 0.28 | 0.26 | 0.28 | 0.02 | 0.47 | 0.39 | 0.42 | 0.43 | 0.03 |
| 30-40 | 0.09 | 0.07 | 0.07 | 0.08 | 0.01 | 0.26 | 0.25 | 0.25 | 0.25 | 0.00 | 0.33 | 0.29 | 0.29 | 0.30 | 0.02 |

Table 82. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B14 located on Roberts Bank, British Columbia on December 22, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B14 | GPS | N 49.04615° | W 123.26015° | Date | Dec 22, 2003 | Time (PST) | 2340 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 1.48 | 1.59 | 1.24 | 1.44 | 0.15 | 0.51 | 0.58 | 0.54 | 0.54 | 0.03 | 2.88 | 2.73 | 2.31 | 2.64 | 0.24 |
| 1-2 | 1.81 | 1.56 | 1.42 | 1.59 | 0.16 | 0.59 | 0.60 | 0.58 | 0.59 | 0.01 | 3.04 | 2.60 | 2.44 | 2.70 | 0.25 |
| 2-3 | 1.99 | 1.77 | 1.74 | 1.83 | 0.11 | 0.73 | 0.59 | 0.61 | 0.64 | 0.06 | 2.74 | 2.98 | 2.86 | 2.86 | 0.10 |
| 3-4 | 2.10 | 1.78 | 2.06 | 1.98 | 0.14 | 0.70 | 0.57 | 0.77 | 0.68 | 0.08 | 3.01 | 3.12 | 2.66 | 2.93 | 0.19 |
| 4-5 | 1.71 | 1.78 | 1.80 | 1.76 | 0.04 | 0.57 | 0.57 | 0.57 | 0.57 | 0.00 | 2.99 | 3.12 | 3.15 | 3.09 | 0.07 |
| 5-10 | 0.94 | 0.83 | 0.90 | 0.89 | 0.05 | 0.42 | 0.37 | 0.39 | 0.40 | 0.02 | 2.22 | 2.24 | 2.28 | 2.25 | 0.02 |
| 10-15 | 0.87 | 0.66 | 0.87 | 0.80 | 0.10 | 0.35 | 0.41 | 0.39 | 0.38 | 0.03 | 2.50 | 1.60 | 2.21 | 2.10 | 0.38 |
| 15-20 | 0.78 | 0.25 | 0.65 | 0.56 | 0.22 | 0.35 | 0.28 | 0.36 | 0.33 | 0.03 | 2.24 | 0.89 | 1.82 | 1.65 | 0.57 |
| 20-30 | 0.23 | 0.06 | 0.11 | 0.13 | 0.07 | 0.23 | 0.18 | 0.20 | 0.20 | 0.02 | 1.01 | 0.31 | 0.56 | 0.63 | 0.29 |
| 30-40 | 0.06 | 0.04 | 0.06 | 0.05 | 0.01 | 0.17 | 0.17 | 0.18 | 0.17 | 0.00 | 0.33 | 0.22 | 0.31 | 0.29 | 0.05 |

Table 83. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C16 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C16 | GPS | N 49.05273° | W 123.15477° | Date | Dec 23, 2003 | Time (PST) | 0230 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 37.15 | 24.97 | 31.67 | 31.27 | 4.98 | 15.44 | 14.40 | 13.54 | 14.46 | 0.78 | 2.41 | 1.73 | 2.34 | 2.16 | 0.30 | |
| 1-2 | 15.47 | 15.90 | 23.14 | 18.17 | 3.52 | 9.51 | 12.03 | 14.07 | 11.87 | 1.87 | 1.63 | 1.32 | 1.64 | 1.53 | 0.15 | |
| 2-3 | 14.19 | 14.68 | 12.61 | 13.83 | 0.88 | 11.15 | 11.10 | 11.26 | 11.17 | 0.07 | 1.27 | 1.32 | 1.12 | 1.24 | 0.09 | |
| 3-4 | 9.25 | 10.05 | 8.41 | 9.24 | 0.67 | 6.01 | 5.94 | 8.04 | 6.67 | 0.97 | 1.54 | 1.69 | 1.05 | 1.42 | 0.28 | |
| 4-5 | 12.82 | 10.16 | 7.08 | 10.02 | 2.35 | 10.22 | 5.95 | 6.38 | 7.51 | 1.92 | 1.25 | 1.71 | 1.11 | 1.36 | 0.26 | |
| 5-10 | 4.45 | 4.08 | 4.14 | 4.22 | 0.16 | 4.29 | 3.85 | 4.16 | 4.10 | 0.18 | 1.04 | 1.06 | 0.99 | 1.03 | 0.03 | |
| 10-15 | 2.98 | 5.85 | 2.98 | 3.94 | 1.35 | 3.84 | 5.23 | 4.46 | 4.51 | 0.57 | 0.78 | 1.12 | 0.67 | 0.85 | 0.19 | |
| 15-20 | 2.15 | 4.45 | 2.68 | 3.09 | 0.98 | 3.80 | 4.17 | 3.35 | 3.77 | 0.33 | 0.57 | 1.07 | 0.80 | 0.81 | 0.20 | |
| 20-30 | 1.58 | 1.49 | 1.55 | 1.54 | 0.04 | 3.00 | 1.92 | 1.77 | 2.23 | 0.55 | 0.53 | 0.78 | 0.88 | 0.73 | 0.15 | |
| 30-40 | 1.52 | 1.71 | 1.55 | 1.59 | 0.08 | 2.38 | 2.39 | 2.32 | 2.36 | 0.03 | 0.64 | 0.71 | 0.67 | 0.67 | 0.03 | |

Table 84. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C17 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C17 | GPS | N 49.04830° | W 123.16345° | Date | Dec 23, 2003 | Time (PST) | 0205 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 8.22 | 24.03 | 9.21 | 13.82 | 7.23 | 5.62 | 4.92 | 3.44 | 4.66 | 0.91 | 1.46 | 4.89 | 2.68 | 3.01 | 1.42 | |
| 1-2 | 17.91 | 10.58 | 8.79 | 12.43 | 3.94 | 5.53 | 5.07 | 3.55 | 4.71 | 0.85 | 3.24 | 2.09 | 2.48 | 2.60 | 0.48 | |
| 2-3 | 10.01 | 14.47 | 8.91 | 11.13 | 2.40 | 6.29 | 5.07 | 3.28 | 4.88 | 1.24 | 1.59 | 2.86 | 2.72 | 2.39 | 0.57 | |
| 3-4 | 18.61 | 10.28 | 10.05 | 12.98 | 3.98 | 4.12 | 4.33 | 3.68 | 4.04 | 0.27 | 4.51 | 2.37 | 2.73 | 3.21 | 0.94 | |
| 4-5 | 18.21 | 9.78 | 9.14 | 12.38 | 4.13 | 2.77 | 3.87 | 3.71 | 3.45 | 0.49 | 6.58 | 2.53 | 2.47 | 3.86 | 1.93 | |
| 5-10 | 7.07 | 4.20 | 7.74 | 6.33 | 1.53 | 3.82 | 2.50 | 7.46 | 4.60 | 2.10 | 1.85 | 1.68 | 1.04 | 1.52 | 0.35 | |
| 10-15 | 7.00 | 4.02 | 10.54 | 7.19 | 2.66 | 3.08 | 2.75 | 4.23 | 3.35 | 0.63 | 2.27 | 1.46 | 2.49 | 2.08 | 0.44 | |
| 15-20 | 8.59 | 6.46 | 7.86 | 7.63 | 0.88 | 6.36 | 5.91 | 6.48 | 6.25 | 0.24 | 1.35 | 1.09 | 1.21 | 1.22 | 0.11 | |
| 20-30 | 3.93 | 3.53 | 3.11 | 3.52 | 0.34 | 3.95 | 3.05 | 3.41 | 3.47 | 0.37 | 1.00 | 1.16 | 0.91 | 1.02 | 0.10 | |
| 30-40 | 3.59 | 4.60 | 4.35 | 4.18 | 0.43 | 4.43 | 3.31 | 0.32 | 2.69 | 1.74 | 0.81 | 1.39 | 13.59 | 5.26 | 5.89 | |

Table 85. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C18 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C18 | GPS | N 49.04122° | W 123.17783° | Date | Dec 23, 2003 | Time (PST) | 0130 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 2.28 | 2.63 | 1.57 | 2.16 | 0.44 | 1.75 | 2.14 | 1.03 | 1.64 | 0.46 | 1.30 | 1.23 | 1.53 | 1.35 | 0.13 |
| 1-2 | 2.51 | 2.40 | 2.44 | 2.45 | 0.05 | 2.02 | 2.95 | 1.64 | 2.20 | 0.55 | 1.24 | 0.81 | 1.49 | 1.18 | 0.28 |
| 2-3 | 2.78 | 2.40 | 2.47 | 2.55 | 0.16 | 2.22 | 3.25 | 1.79 | 2.42 | 0.61 | 1.25 | 0.74 | 1.38 | 1.12 | 0.28 |
| 3-4 | 2.93 | 2.13 | 2.25 | 2.44 | 0.35 | 2.07 | 1.87 | 2.44 | 2.13 | 0.24 | 1.42 | 1.14 | 0.92 | 1.16 | 0.20 |
| 4-5 | 2.78 | 1.89 | 2.36 | 2.34 | 0.36 | 2.30 | 1.51 | 1.98 | 1.93 | 0.32 | 1.21 | 1.25 | 1.19 | 1.22 | 0.03 |
| 5-10 | 1.04 | 0.90 | 0.96 | 0.96 | 0.06 | 1.18 | 0.94 | 1.60 | 1.24 | 0.27 | 0.88 | 0.96 | 0.60 | 0.81 | 0.15 |
| 10-15 | 0.91 | 0.87 | 0.85 | 0.87 | 0.03 | 0.94 | 0.90 | 1.02 | 0.95 | 0.05 | 0.96 | 0.96 | 0.83 | 0.92 | 0.07 |
| 15-20 | 0.86 | 0.79 | 0.83 | 0.83 | 0.03 | 0.83 | 0.98 | 2.90 | 1.57 | 0.94 | 1.03 | 0.81 | 0.29 | 0.71 | 0.31 |
| 20-30 | 0.40 | 0.54 | 0.85 | 0.60 | 0.19 | 1.01 | 1.40 | 3.05 | 1.82 | 0.89 | 0.40 | 0.38 | 0.28 | 0.35 | 0.05 |
| 30-40 | 1.19 | 1.16 | 1.13 | 1.16 | 0.02 | 3.21 | 2.96 | 2.81 | 3.00 | 0.16 | 0.37 | 0.39 | 0.40 | 0.39 | 0.01 |



Table 86. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C19 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C19 | GPS | N 49.03173° | W 123.19428° | Date | Dec 23, 2003 | Time (PST) | 2330 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 1.83 | 2.12 | 1.45 | 1.80 | 0.27 | 1.00 | 1.21 | 0.81 | 1.00 | 0.16 | 1.83 | 1.76 | 1.80 | 1.80 | 0.03 |
| 1-2 | 1.94 | 1.97 | 1.59 | 1.83 | 0.17 | 0.99 | 1.08 | 0.95 | 1.01 | 0.06 | 1.96 | 1.82 | 1.69 | 1.82 | 0.11 |
| 2-3 | 1.69 | 1.94 | 1.46 | 1.70 | 0.20 | 0.82 | 1.06 | 0.91 | 0.93 | 0.10 | 2.05 | 1.84 | 1.59 | 1.83 | 0.19 |
| 3-4 | 1.98 | 1.82 | 1.43 | 1.74 | 0.23 | 0.95 | 0.93 | 0.73 | 0.87 | 0.10 | 2.08 | 1.96 | 1.96 | 2.00 | 0.06 |
| 4-5 | 1.62 | 2.03 | 1.61 | 1.75 | 0.20 | 0.82 | 1.14 | 0.88 | 0.95 | 0.14 | 1.99 | 1.78 | 1.84 | 1.87 | 0.09 |
| 5-10 | 0.80 | 0.75 | 0.72 | 0.76 | 0.03 | 0.52 | 0.58 | 0.57 | 0.56 | 0.03 | 1.55 | 1.29 | 1.27 | 1.37 | 0.13 |
| 10-15 | 0.76 | 0.59 | 0.53 | 0.63 | 0.10 | 0.49 | 0.55 | 0.52 | 0.52 | 0.02 | 1.55 | 1.08 | 1.01 | 1.21 | 0.24 |
| 15-20 | 0.65 | 0.52 | 0.46 | 0.54 | 0.08 | 0.54 | 0.44 | 0.53 | 0.51 | 0.04 | 1.19 | 1.17 | 0.87 | 1.07 | 0.15 |
| 20-30 | 0.22 | 0.21 | 0.18 | 0.20 | 0.02 | 0.35 | 0.35 | 0.34 | 0.35 | 0.00 | 0.64 | 0.61 | 0.51 | 0.58 | 0.05 |
| 30-40 | 0.20 | 0.20 | 0.20 | 0.20 | 0.00 | 0.35 | 0.34 | 0.34 | 0.34 | 0.01 | 0.57 | 0.59 | 0.59 | 0.58 | 0.01 |

Table 87. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D20 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D20 | GPS | N 49.04205° | W 123.11592° | Date | Dec 23, 2003 | Time (PST) | 2115 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 21.01 | 17.15 | 13.55 | 17.24 | 3.05 | 12.51 | 9.52 | 9.36 | 10.47 | 1.45 | 1.68 | 1.80 | 1.45 | 1.64 | 0.15 |
| 1-2 | 14.19 | 14.62 | 16.32 | 15.04 | 0.92 | 9.62 | 12.76 | 11.17 | 11.18 | 1.28 | 1.48 | 1.15 | 1.46 | 1.36 | 0.15 |
| 2-3 | 10.47 | 9.82 | 13.89 | 11.39 | 1.78 | 5.49 | 7.10 | 9.61 | 7.40 | 1.70 | 1.91 | 1.38 | 1.44 | 1.58 | 0.23 |
| 3-4 | 16.02 | 12.88 | 12.76 | 13.89 | 1.51 | 11.48 | 11.02 | 10.95 | 11.15 | 0.23 | 1.40 | 1.17 | 1.16 | 1.24 | 0.11 |
| 4-5 | 13.61 | 11.69 | 12.15 | 12.49 | 0.82 | 10.78 | 10.64 | 10.95 | 10.79 | 0.13 | 1.26 | 1.10 | 1.11 | 1.16 | 0.07 |
| 5-10 | 5.42 | 4.32 | 5.54 | 5.10 | 0.55 | 5.53 | 4.60 | 5.35 | 5.16 | 0.40 | 0.98 | 0.94 | 1.04 | 0.99 | 0.04 |
| 10-15 | 4.51 | 4.26 | 5.48 | 4.75 | 0.53 | 4.72 | 4.90 | 4.79 | 4.80 | 0.07 | 0.95 | 0.87 | 1.14 | 0.99 | 0.11 |
| 15-20 | 3.78 | 4.08 | 4.51 | 4.12 | 0.30 | 4.22 | 4.29 | 3.86 | 4.12 | 0.19 | 0.89 | 0.95 | 1.17 | 1.00 | 0.12 |
| 20-30 | 1.37 | 1.22 | 1.55 | 1.38 | 0.14 | 2.35 | 2.20 | 2.38 | 2.31 | 0.08 | 0.58 | 0.55 | 0.65 | 0.60 | 0.04 |
| 30-40 | 0.57 | 0.56 | 0.55 | 0.56 | 0.01 | 1.13 | 1.33 | 1.16 | 1.21 | 0.09 | 0.50 | 0.42 | 0.47 | 0.47 | 0.03 |



Table 88. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D21 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D21 | GPS | N 49.03983° | W 123.11993° | Date | Dec 23, 2003 | Time (PST) | 2140 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 6.81 | 7.12 | 7.58 | 7.17 | 0.31 | 5.22 | 6.34 | 8.84 | 6.80 | 1.51 | 1.31 | 1.12 | 0.86 | 1.10 | 0.18 |
| 1-2 | 8.87 | 12.61 | 7.96 | 9.81 | 2.01 | 6.47 | 12.49 | 9.50 | 9.49 | 2.46 | 1.37 | 1.01 | 0.84 | 1.07 | 0.22 |
| 2-3 | 9.40 | 14.25 | 10.23 | 11.30 | 2.12 | 8.01 | 13.80 | 14.19 | 12.00 | 2.82 | 1.17 | 1.03 | 0.72 | 0.98 | 0.19 |
| 3-4 | 9.21 | 7.23 | 7.69 | 8.04 | 0.85 | 8.63 | 7.61 | 8.61 | 8.28 | 0.48 | 1.07 | 0.95 | 0.89 | 0.97 | 0.07 |
| 4-5 | 8.18 | 8.45 | 9.59 | 8.74 | 0.61 | 9.85 | 9.70 | 15.47 | 11.67 | 2.69 | 0.83 | 0.87 | 0.62 | 0.77 | 0.11 |
| 5-10 | 4.14 | 3.84 | 3.05 | 3.67 | 0.46 | 8.53 | 6.01 | 6.74 | 7.09 | 1.06 | 0.49 | 0.64 | 0.45 | 0.53 | 0.08 |
| 10-15 | 3.35 | 2.80 | 3.35 | 3.17 | 0.26 | 6.74 | 5.63 | 7.17 | 6.51 | 0.65 | 0.50 | 0.50 | 0.47 | 0.49 | 0.01 |
| 15-20 | 2.07 | 2.56 | 3.35 | 2.66 | 0.53 | 5.31 | 5.56 | 5.20 | 5.36 | 0.15 | 0.39 | 0.46 | 0.64 | 0.50 | 0.11 |
| 20-30 | 0.97 | 1.34 | 1.49 | 1.27 | 0.22 | 2.59 | 3.24 | 2.57 | 2.80 | 0.31 | 0.38 | 0.41 | 0.58 | 0.46 | 0.09 |
| 30-40 | 1.07 | 1.34 | 1.13 | 1.18 | 0.12 | 3.09 | 2.97 | 2.26 | 2.77 | 0.37 | 0.35 | 0.45 | 0.50 | 0.43 | 0.06 |

Table 89. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D22 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D22 | GPS | N 49.03707° | W 123.12370° | Date | Dec 23, 2003 | Time (PST) | 2245 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 35.02 | 15.23 | 15.23 | 21.82 | 9.33 | 19.42 | 20.76 | 15.84 | 18.67 | 2.08 | 1.80 | 0.73 | 0.96 | 1.17 | 0.46 |
| 1-2 | 29.54 | 20.71 | 16.14 | 22.13 | 5.56 | 14.44 | 18.97 | 15.54 | 16.32 | 1.93 | 2.05 | 1.09 | 1.04 | 1.39 | 0.46 |
| 2-3 | 17.51 | 23.45 | 21.93 | 20.96 | 2.52 | 12.17 | 21.77 | 20.83 | 18.25 | 4.32 | 1.44 | 1.08 | 1.05 | 1.19 | 0.18 |
| 3-4 | 24.36 | 21.32 | 21.01 | 22.23 | 1.51 | 19.93 | 20.82 | 19.28 | 20.01 | 0.63 | 1.22 | 1.02 | 1.09 | 1.11 | 0.08 |
| 4-5 | 17.36 | 21.32 | 21.01 | 19.90 | 1.80 | 14.63 | 21.44 | 24.51 | 20.19 | 4.13 | 1.19 | 0.99 | 0.86 | 1.01 | 0.13 |
| 5-10 | 9.26 | 5.79 | 10.96 | 8.67 | 2.15 | 10.49 | 9.35 | 8.84 | 9.56 | 0.69 | 0.88 | 0.62 | 1.24 | 0.91 | 0.25 |
| 10-15 | 8.10 | 5.48 | 7.37 | 6.98 | 1.10 | 9.19 | 8.73 | 8.50 | 8.81 | 0.28 | 0.88 | 0.63 | 0.87 | 0.79 | 0.12 |
| 15-20 | 6.21 | 5.66 | 7.92 | 6.60 | 0.96 | 8.18 | 8.98 | 8.88 | 8.68 | 0.35 | 0.76 | 0.63 | 0.89 | 0.76 | 0.11 |
| 20-30 | 2.89 | 2.98 | 3.14 | 3.00 | 0.10 | 4.73 | 4.86 | 4.58 | 4.73 | 0.11 | 0.61 | 0.61 | 0.68 | 0.64 | 0.03 |
| 30-40 | 2.53 | 2.16 | 2.25 | 2.31 | 0.16 | 3.96 | 4.54 | 4.76 | 4.42 | 0.34 | 0.64 | 0.48 | 0.47 | 0.53 | 0.08 |

Table 90. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E25 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E25 | GPS | N 49.03658° | W 123.10715° | Date | Dec 23, 2003 | Time (PST) | 2015 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 23.97 | 9.78 | 16.51 | 16.75 | 5.79 | 4.42 | 5.90 | 7.12 | 5.81 | 1.10 | 5.42 | 1.66 | 2.32 | 3.13 | 1.64 |
| 1-2 | 23.75 | 15.38 | 21.32 | 20.15 | 3.52 | 10.70 | 9.38 | 10.98 | 10.35 | 0.70 | 2.22 | 1.64 | 1.94 | 1.93 | 0.24 |
| 2-3 | 15.14 | 7.69 | 19.19 | 14.00 | 4.76 | 8.03 | 6.54 | 12.19 | 8.92 | 2.39 | 1.89 | 1.18 | 1.57 | 1.55 | 0.29 |
| 3-4 | 9.78 | 6.62 | 16.05 | 10.82 | 3.92 | 5.90 | 6.06 | 12.03 | 8.00 | 2.85 | 1.66 | 1.09 | 1.33 | 1.36 | 0.23 |
| 4-5 | 12.15 | 6.66 | 14.53 | 11.11 | 3.29 | 9.72 | 6.33 | 10.48 | 8.84 | 1.80 | 1.25 | 1.05 | 1.39 | 1.23 | 0.14 |
| 5-10 | 5.30 | 3.29 | 5.36 | 4.65 | 0.96 | 4.61 | 2.92 | 6.14 | 4.56 | 1.31 | 1.15 | 1.12 | 0.87 | 1.05 | 0.13 |
| 10-15 | 4.69 | 1.55 | 4.32 | 3.52 | 1.40 | 3.98 | 2.10 | 5.46 | 3.85 | 1.37 | 1.18 | 0.74 | 0.79 | 0.90 | 0.20 |
| 15-20 | 3.05 | 1.39 | 4.32 | 2.92 | 1.20 | 3.23 | 2.25 | 4.84 | 3.44 | 1.07 | 0.94 | 0.62 | 0.89 | 0.82 | 0.14 |
| 20-30 | 1.13 | 0.55 | 1.55 | 1.08 | 0.41 | 1.98 | 1.21 | 2.91 | 2.03 | 0.69 | 0.57 | 0.46 | 0.53 | 0.52 | 0.05 |
| 30-40 | 0.58 | 0.37 | 1.07 | 0.67 | 0.29 | 1.42 | 1.18 | 2.29 | 1.63 | 0.48 | 0.41 | 0.32 | 0.47 | 0.40 | 0.06 |

Table 91. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E26 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E26 | GPS | N 49.03443° | W 123.11097° | Date | Dec 23, 2003 | Time (PST) | 2205 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 40.50 | 14.43 | 18.58 | 24.50 | 11.44 | 16.40 | 15.89 | 16.49 | 16.26 | 0.26 | 2.47 | 0.91 | 1.13 | 1.50 | 0.69 |
| 1-2 | 14.53 | 20.40 | 17.11 | 17.35 | 2.41 | 9.25 | 14.35 | 12.66 | 12.09 | 2.12 | 1.57 | 1.42 | 1.35 | 1.45 | 0.09 |
| 2-3 | 18.61 | 17.30 | 18.73 | 18.21 | 0.65 | 9.97 | 11.06 | 10.95 | 10.66 | 0.49 | 1.87 | 1.56 | 1.71 | 1.71 | 0.12 |
| 3-4 | 14.98 | 18.39 | 17.05 | 16.81 | 1.40 | 10.48 | 10.40 | 11.24 | 10.71 | 0.38 | 1.43 | 1.77 | 1.52 | 1.57 | 0.14 |
| 4-5 | 14.53 | 16.66 | 16.96 | 16.05 | 1.08 | 7.40 | 10.19 | 12.66 | 10.09 | 2.15 | 1.96 | 1.63 | 1.34 | 1.65 | 0.25 |
| 5-10 | 5.85 | 4.63 | 5.91 | 5.46 | 0.59 | 6.15 | 7.24 | 6.21 | 6.53 | 0.50 | 0.95 | 0.64 | 0.95 | 0.85 | 0.15 |
| 10-15 | 4.32 | 3.29 | 4.51 | 4.04 | 0.54 | 6.69 | 7.05 | 6.38 | 6.70 | 0.27 | 0.65 | 0.47 | 0.71 | 0.61 | 0.10 |
| 15-20 | 2.50 | 3.05 | 3.29 | 2.94 | 0.33 | 4.33 | 12.64 | 5.32 | 7.43 | 3.71 | 0.58 | 0.24 | 0.62 | 0.48 | 0.17 |
| 20-30 | 1.28 | 1.89 | 1.28 | 1.48 | 0.29 | 2.04 | 13.37 | 2.32 | 5.91 | 5.27 | 0.63 | 0.14 | 0.55 | 0.44 | 0.21 |
| 30-40 | 0.54 | 1.71 | 0.53 | 0.93 | 0.55 | 1.19 | 6.14 | 1.22 | 2.85 | 2.32 | 0.45 | 0.28 | 0.43 | 0.39 | 0.08 |

Table 92. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E27 located on Roberts Bank, British Columbia on December 24, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E27 | GPS | N 49.03123° | W 123.11568° | Date | Dec 24, 2003 | Time (PST) | 0250 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 3.77 | 3.92 | 2.55 | 3.41 | 0.61 | 14.15 | 8.50 | 9.94 | 10.86 | 2.40 | 0.27 | 0.46 | 0.26 | 0.33 | 0.09 |
| 1-2 | 6.70 | 5.75 | 5.48 | 5.98 | 0.52 | 30.21 | 14.21 | 25.28 | 23.23 | 6.69 | 0.22 | 0.40 | 0.22 | 0.28 | 0.09 |
| 2-3 | 6.09 | 12.79 | 4.87 | 7.92 | 3.48 | 32.97 | 29.04 | 16.04 | 26.02 | 7.23 | 0.18 | 0.44 | 0.30 | 0.31 | 0.10 |
| 3-4 | 7.31 | 13.40 | 7.00 | 9.24 | 2.95 | 33.29 | 24.43 | 29.60 | 29.11 | 3.63 | 0.22 | 0.55 | 0.24 | 0.33 | 0.15 |
| 4-5 | 7.61 | 6.36 | 9.75 | 7.91 | 1.40 | 28.99 | 11.79 | 29.01 | 23.26 | 8.11 | 0.26 | 0.54 | 0.34 | 0.38 | 0.12 |
| 5-10 | 3.84 | 4.39 | 4.81 | 4.34 | 0.40 | 12.10 | 10.44 | 11.43 | 11.32 | 0.68 | 0.32 | 0.42 | 0.42 | 0.39 | 0.05 |
| 10-15 | 3.29 | 4.45 | 3.59 | 3.78 | 0.49 | 7.97 | 12.84 | 7.48 | 9.43 | 2.42 | 0.41 | 0.35 | 0.48 | 0.41 | 0.05 |
| 15-20 | 2.74 | 2.56 | 2.92 | 2.74 | 0.15 | 8.52 | 8.33 | 7.78 | 8.21 | 0.31 | 0.32 | 0.31 | 0.38 | 0.33 | 0.03 |
| 20-30 | 1.37 | 1.31 | 1.31 | 1.33 | 0.03 | 4.93 | 4.60 | 5.18 | 4.90 | 0.24 | 0.28 | 0.28 | 0.25 | 0.27 | 0.01 |
| 30-40 | 1.04 | 1.04 | 1.28 | 1.12 | 0.11 | 4.10 | 4.19 | 5.40 | 4.56 | 0.59 | 0.25 | 0.25 | 0.24 | 0.25 | 0.01 |

Table 93. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E28 located on Roberts Bank, British Columbia on December 24, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E28 | GPS | N 49.02823° | W 123.12062° | Date | Dec 24, 2003 | Time (PST) | 0150 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 15.23 | 2.74 | 26.49 | 14.82 | 9.70 | 53.98 | 15.98 | 43.94 | 37.97 | 16.08 | 0.28 | 0.17 | 0.60 | 0.35 | 0.18 | |
| 1-2 | 10.35 | 2.86 | 3.01 | 5.41 | 3.50 | 37.32 | 17.60 | 17.56 | 24.16 | 9.31 | 0.28 | 0.16 | 0.17 | 0.20 | 0.05 | |
| 2-3 | 8.53 | 1.94 | 3.46 | 4.64 | 2.82 | 34.23 | 11.71 | 18.87 | 21.60 | 9.39 | 0.25 | 0.17 | 0.18 | 0.20 | 0.04 | |
| 3-4 | 5.79 | 2.17 | 10.96 | 6.31 | 3.61 | 29.28 | 13.75 | 36.40 | 26.48 | 9.46 | 0.20 | 0.16 | 0.30 | 0.22 | 0.06 | |
| 4-5 | 7.61 | 2.17 | 3.05 | 4.28 | 2.39 | 31.14 | 13.67 | 34.48 | 26.43 | 9.12 | 0.24 | 0.16 | 0.09 | 0.16 | 0.06 | |
| 5-10 | 3.53 | 1.46 | 1.52 | 2.17 | 0.96 | 18.74 | 12.93 | 13.98 | 15.22 | 2.53 | 0.19 | 0.11 | 0.11 | 0.14 | 0.04 | |
| 10-15 | 2.01 | 2.50 | 2.19 | 2.23 | 0.20 | 13.55 | 14.67 | 14.66 | 14.29 | 0.52 | 0.15 | 0.17 | 0.15 | 0.16 | 0.01 | |
| 15-20 | 2.86 | 3.53 | 6.88 | 4.43 | 1.76 | 14.85 | 16.71 | 21.78 | 17.78 | 2.93 | 0.19 | 0.21 | 0.32 | 0.24 | 0.05 | |
| 20-30 | 1.34 | 1.71 | 1.98 | 1.67 | 0.26 | 9.27 | 10.17 | 11.49 | 10.31 | 0.91 | 0.14 | 0.17 | 0.17 | 0.16 | 0.01 | |
| 30-40 | 1.83 | 2.80 | 1.74 | 2.12 | 0.48 | 9.74 | 13.35 | 9.83 | 10.97 | 1.68 | 0.19 | 0.21 | 0.18 | 0.19 | 0.01 | |



Table 94. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E29 located on Roberts Bank, British Columbia on December 24, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E29 | GPS | N 49.02393° | W 123.12653° | Date | Dec 24, 2003 | Time (PST) | 0025 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 5.48 | 3.50 | 2.69 | 3.96 | 1.11 | 37.58 | 20.18 | 17.06 | 24.94 | 9.03 | 0.15 | 0.17 | 0.17 | 0.16 | 0.01 | |
| 1-2 | 3.01 | 3.27 | 2.28 | 2.86 | 0.42 | 17.22 | 18.68 | 14.36 | 16.75 | 1.79 | 0.17 | 0.18 | 0.16 | 0.17 | 0.01 | |
| 2-3 | 2.51 | 6.40 | 3.46 | 4.12 | 1.65 | 15.40 | 34.21 | 19.95 | 23.19 | 8.01 | 0.16 | 0.19 | 0.17 | 0.17 | 0.01 | |
| 3-4 | 2.21 | 5.48 | 4.87 | 4.19 | 1.42 | 13.52 | 29.58 | 32.04 | 25.05 | 8.21 | 0.16 | 0.19 | 0.15 | 0.17 | 0.01 | |
| 4-5 | 2.13 | 5.79 | 2.17 | 3.36 | 1.71 | 12.82 | 35.43 | 14.02 | 20.76 | 10.39 | 0.17 | 0.16 | 0.15 | 0.16 | 0.00 | |
| 5-10 | 2.01 | 1.95 | 2.44 | 2.13 | 0.22 | 11.59 | 13.18 | 13.00 | 12.59 | 0.72 | 0.17 | 0.15 | 0.19 | 0.17 | 0.02 | |
| 10-15 | 2.19 | 3.47 | 2.68 | 2.78 | 0.53 | 16.51 | 19.54 | 14.79 | 16.94 | 1.96 | 0.13 | 0.18 | 0.18 | 0.16 | 0.02 | |
| 15-20 | 2.92 | 5.36 | 2.86 | 3.72 | 1.16 | 20.51 | 25.03 | 16.88 | 20.81 | 3.33 | 0.14 | 0.21 | 0.17 | 0.18 | 0.03 | |
| 20-30 | 2.16 | 2.50 | 2.56 | 2.41 | 0.17 | 10.91 | 14.45 | 13.01 | 12.79 | 1.45 | 0.20 | 0.17 | 0.20 | 0.19 | 0.01 | |
| 30-40 | 1.58 | 1.80 | 2.10 | 1.83 | 0.21 | 8.84 | 10.63 | 12.69 | 10.72 | 1.57 | 0.18 | 0.17 | 0.17 | 0.17 | 0.01 | |

Table 95. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F30 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F30 | GPS | N 49.03352° | W 123.10128° | Date | Dec 23, 2003 | Time (PST) | 2045 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 163.23 | 226.57 | 177.85 | 189.22 | 27.08 | 97.60 | 103.15 | 107.59 | 102.78 | 4.09 | 1.67 | 2.20 | 1.65 | 1.84 | 0.25 |
| 1-2 | 74.61 | 202.21 | 147.64 | 141.49 | 52.27 | 60.72 | 125.05 | 79.72 | 88.50 | 26.99 | 1.23 | 1.62 | 1.85 | 1.57 | 0.26 |
| 2-3 | 207.08 | 233.88 | 157.38 | 199.45 | 31.69 | 85.73 | 137.67 | 82.28 | 101.90 | 25.34 | 2.42 | 1.70 | 1.91 | 2.01 | 0.30 |
| 3-4 | 148.61 | 197.34 | 81.62 | 142.52 | 47.44 | 126.98 | 115.16 | 52.80 | 98.31 | 32.54 | 1.17 | 1.71 | 1.55 | 1.48 | 0.23 |
| 4-5 | 75.22 | 153.48 | 55.43 | 94.71 | 42.34 | 42.28 | 99.96 | 53.15 | 65.13 | 25.03 | 1.78 | 1.54 | 1.04 | 1.45 | 0.31 |
| 5-10 | 12.12 | 22.36 | 7.67 | 14.05 | 6.15 | 8.86 | 23.94 | 12.01 | 14.94 | 6.50 | 1.37 | 0.93 | 0.64 | 0.98 | 0.30 |
| 10-15 | 6.64 | 4.20 | 1.46 | 4.10 | 2.11 | 12.12 | 8.29 | 6.72 | 9.04 | 2.27 | 0.55 | 0.51 | 0.22 | 0.42 | 0.15 |
| 15-20 | 1.28 | 2.44 | 1.04 | 1.58 | 0.61 | 5.49 | 7.34 | 7.15 | 6.66 | 0.83 | 0.23 | 0.33 | 0.14 | 0.24 | 0.08 |
| 20-30 | 1.92 | 0.82 | 2.53 | 1.76 | 0.71 | 4.51 | 3.64 | 6.61 | 4.92 | 1.25 | 0.43 | 0.23 | 0.38 | 0.34 | 0.09 |
| 30-40 | 4.08 | 5.21 | 0.61 | 3.30 | 1.96 | 6.87 | 6.67 | 4.13 | 5.89 | 1.25 | 0.59 | 0.78 | 0.15 | 0.51 | 0.27 |



Table 96. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F31 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F31 | GPS | N 49.03058° | W 123.10497° | Date | Dec 23, 2003 | Time (PST) | 2220 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 23.45 | 8.60 | 8.68 | 13.58 | 6.98 | 12.54 | 7.89 | 6.55 | 8.99 | 2.57 | 1.87 | 1.09 | 1.33 | 1.43 | 0.33 |
| 1-2 | 14.62 | 18.58 | 16.32 | 16.51 | 1.62 | 13.68 | 17.10 | 9.33 | 13.37 | 3.18 | 1.07 | 1.09 | 1.75 | 1.30 | 0.32 |
| 2-3 | 22.54 | 18.58 | 19.19 | 20.10 | 1.74 | 22.68 | 15.87 | 11.57 | 16.71 | 4.57 | 0.99 | 1.17 | 1.66 | 1.27 | 0.28 |
| 3-4 | 24.67 | 18.88 | 18.30 | 20.62 | 2.87 | 19.32 | 16.49 | 12.12 | 15.97 | 2.96 | 1.28 | 1.14 | 1.51 | 1.31 | 0.15 |
| 4-5 | 27.10 | 20.71 | 22.54 | 23.45 | 2.69 | 19.96 | 17.12 | 15.91 | 17.66 | 1.69 | 1.36 | 1.21 | 1.42 | 1.33 | 0.09 |
| 5-10 | 6.27 | 8.71 | 6.94 | 7.31 | 1.03 | 6.83 | 8.45 | 9.97 | 8.42 | 1.28 | 0.92 | 1.03 | 0.70 | 0.88 | 0.14 |
| 10-15 | 6.03 | 5.30 | 8.04 | 6.46 | 1.16 | 7.44 | 6.94 | 9.31 | 7.90 | 1.02 | 0.81 | 0.76 | 0.86 | 0.81 | 0.04 |
| 15-20 | 5.54 | 5.24 | 5.97 | 5.58 | 0.30 | 5.71 | 6.27 | 8.06 | 6.68 | 1.00 | 0.97 | 0.84 | 0.74 | 0.85 | 0.09 |
| 20-30 | 2.77 | 3.26 | 2.25 | 2.76 | 0.41 | 2.95 | 3.79 | 3.28 | 3.34 | 0.34 | 0.94 | 0.86 | 0.69 | 0.83 | 0.11 |
| 30-40 | 1.49 | 2.04 | 1.77 | 1.77 | 0.22 | 3.52 | 3.34 | 2.76 | 3.21 | 0.33 | 0.42 | 0.61 | 0.64 | 0.56 | 0.10 |

Table 97. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F33 located on Roberts Bank, British Columbia on December 23, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F33 | GPS | N 49.02410° | W 123.11433° | Date | Dec 24, 2003 | Time (PST) | 0120 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 47.51 | 7.31 | 18.27 | 24.36 | 16.97 | 92.75 | 27.14 | 51.24 | 57.04 | 27.10 | 0.51 | 0.27 | 0.36 | 0.38 | 0.10 |
| 1-2 | 25.28 | 18.58 | 3.69 | 15.85 | 9.02 | 63.31 | 46.02 | 17.65 | 42.32 | 18.82 | 0.40 | 0.40 | 0.21 | 0.34 | 0.09 |
| 2-3 | 19.79 | 14.92 | 2.70 | 12.47 | 7.19 | 58.95 | 27.52 | 12.98 | 33.15 | 19.18 | 0.34 | 0.54 | 0.21 | 0.36 | 0.14 |
| 3-4 | 7.92 | 15.84 | 1.79 | 8.51 | 5.75 | 26.84 | 24.76 | 9.36 | 20.32 | 7.80 | 0.30 | 0.64 | 0.19 | 0.38 | 0.19 |
| 4-5 | 10.05 | 12.49 | 4.00 | 8.84 | 3.57 | 34.86 | 32.42 | 13.27 | 26.85 | 9.66 | 0.29 | 0.39 | 0.30 | 0.32 | 0.04 |
| 5-10 | 1.71 | 4.57 | 3.84 | 3.37 | 1.21 | 14.10 | 16.22 | 17.75 | 16.03 | 1.50 | 0.12 | 0.28 | 0.22 | 0.21 | 0.07 |
| 10-15 | 3.41 | 4.81 | 5.79 | 4.67 | 0.97 | 16.77 | 18.87 | 20.54 | 18.73 | 1.55 | 0.20 | 0.25 | 0.28 | 0.25 | 0.03 |
| 15-20 | 3.17 | 6.15 | 5.66 | 4.99 | 1.31 | 16.39 | 22.33 | 17.90 | 18.87 | 2.52 | 0.19 | 0.28 | 0.32 | 0.26 | 0.05 |
| 20-30 | 2.04 | 2.62 | 2.50 | 2.39 | 0.25 | 8.45 | 9.10 | 9.96 | 9.17 | 0.62 | 0.24 | 0.29 | 0.25 | 0.26 | 0.02 |
| 30-40 | 1.43 | 1.52 | 1.61 | 1.52 | 0.07 | 6.66 | 8.20 | 8.32 | 7.73 | 0.76 | 0.21 | 0.19 | 0.19 | 0.20 | 0.01 |

Table 98. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F34 located on Roberts Bank, British Columbia on December 24, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F34 | GPS | N 49.02045° | W 123.11985° | Date | Dec 24, 2003 | Time (PST) | 0055 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 3.65 | 6.40 | 2.40 | 4.15 | 1.67 | 19.22 | 36.05 | 10.94 | 22.07 | 10.45 | 0.19 | 0.18 | 0.22 | 0.20 | 0.02 |
| 1-2 | 3.50 | 17.05 | 2.36 | 7.64 | 6.67 | 19.45 | 53.69 | 11.67 | 28.27 | 18.25 | 0.18 | 0.32 | 0.20 | 0.23 | 0.06 |
| 2-3 | 2.86 | 6.70 | 3.08 | 4.21 | 1.76 | 14.75 | 46.20 | 14.18 | 25.05 | 14.96 | 0.19 | 0.15 | 0.22 | 0.19 | 0.03 |
| 3-4 | 2.47 | 8.53 | 3.65 | 4.89 | 2.62 | 14.94 | 39.46 | 17.65 | 24.01 | 10.97 | 0.17 | 0.22 | 0.21 | 0.20 | 0.02 |
| 4-5 | 3.08 | 7.61 | 5.48 | 5.39 | 1.85 | 16.99 | 46.21 | 31.12 | 31.44 | 11.93 | 0.18 | 0.16 | 0.18 | 0.17 | 0.01 |
| 5-10 | 3.47 | 3.41 | 1.95 | 2.94 | 0.70 | 17.81 | 19.97 | 10.42 | 16.06 | 4.09 | 0.19 | 0.17 | 0.19 | 0.18 | 0.01 |
| 10-15 | 4.02 | 3.47 | 2.74 | 3.41 | 0.52 | 16.77 | 16.03 | 13.07 | 15.29 | 1.60 | 0.24 | 0.22 | 0.21 | 0.22 | 0.01 |
| 15-20 | 4.75 | 3.90 | 3.59 | 4.08 | 0.49 | 22.32 | 16.34 | 18.24 | 18.97 | 2.49 | 0.21 | 0.24 | 0.20 | 0.22 | 0.02 |
| 20-30 | 2.62 | 1.77 | 3.17 | 2.52 | 0.58 | 13.16 | 10.75 | 14.70 | 12.87 | 1.63 | 0.20 | 0.16 | 0.22 | 0.19 | 0.02 |
| 30-40 | 1.89 | 1.67 | 3.08 | 2.21 | 0.62 | 10.97 | 11.09 | 14.43 | 12.16 | 1.60 | 0.17 | 0.15 | 0.21 | 0.18 | 0.03 |

Table 99. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A2 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A2 | GPS | N 49.11190° | W 123.22265° | Date | Feb 16, 2004 | Time (PST) | 2300 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 64.56 | 59.69 | 95.32 | 73.19 | 15.77 | 19.10 | 26.43 | 17.87 | 21.13 | 3.78 | 3.38 | 2.26 | 5.33 | 3.66 | 1.27 | |
| 1-2 | 33.80 | 42.03 | 52.08 | 42.63 | 7.47 | 23.41 | 30.26 | 21.13 | 24.93 | 3.88 | 1.44 | 1.39 | 2.46 | 1.77 | 0.49 | |
| 2-3 | 31.98 | 34.41 | 43.24 | 36.54 | 4.84 | 28.62 | 27.72 | 12.43 | 22.92 | 7.43 | 1.12 | 1.24 | 3.48 | 1.95 | 1.09 | |
| 3-4 | 28.32 | 29.24 | 35.93 | 31.16 | 3.39 | 29.81 | 36.28 | 49.26 | 38.45 | 8.09 | 0.95 | 0.81 | 0.73 | 0.83 | 0.09 | |
| 4-5 | 13.40 | 53.60 | 28.93 | 31.98 | 16.55 | 38.27 | 23.30 | 35.66 | 32.41 | 6.53 | 0.35 | 2.30 | 0.81 | 1.15 | 0.83 | |
| 5-10 | 12.97 | 7.41 | 7.50 | 9.29 | 2.60 | 5.79 | 8.29 | 11.34 | 8.48 | 2.27 | 2.24 | 0.89 | 0.66 | 1.27 | 0.70 | |
| 10-15 | 11.33 | 10.29 | 13.22 | 11.61 | 1.21 | 9.46 | 11.73 | 15.02 | 12.07 | 2.28 | 1.20 | 0.88 | 0.88 | 0.98 | 0.15 | |
| 15-20 | 9.01 | 6.09 | 14.68 | 9.93 | 3.56 | 7.84 | 12.92 | 4.45 | 8.40 | 3.48 | 1.15 | 0.47 | 3.30 | 1.64 | 1.20 | |
| 20-30 | 5.91 | 5.63 | 2.19 | 4.58 | 1.69 | 6.36 | 4.49 | 4.64 | 5.16 | 0.85 | 0.93 | 1.26 | 0.47 | 0.89 | 0.32 | |
| 30-40 | 3.75 | 5.85 | 2.62 | 4.07 | 1.34 | 5.14 | 4.61 | 5.01 | 4.92 | 0.23 | 0.73 | 1.27 | 0.52 | 0.84 | 0.31 | |

Table 100. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A3 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A3 | GPS | N 49.10980° | W 123.22623° | Date | Feb 16, 2004 | Time (PST) | 2240 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 33.50 | 23.45 | 6.59 | 21.18 | 11.10 | 12.02 | 11.92 | 6.95 | 10.30 | 2.37 | 2.79 | 1.97 | 0.95 | 1.90 | 0.75 | |
| 1-2 | 31.67 | 32.59 | 7.58 | 23.94 | 11.58 | 12.31 | 13.24 | 5.65 | 10.40 | 3.38 | 2.57 | 2.46 | 1.34 | 2.12 | 0.56 | |
| 2-3 | 20.71 | 34.72 | 8.53 | 21.32 | 10.70 | 11.28 | 18.19 | 5.08 | 11.52 | 5.35 | 1.84 | 1.91 | 1.68 | 1.81 | 0.10 | |
| 3-4 | 21.62 | 36.85 | 19.49 | 25.99 | 7.73 | 15.60 | 20.36 | 12.50 | 16.15 | 3.23 | 1.39 | 1.81 | 1.56 | 1.59 | 0.17 | |
| 4-5 | 16.02 | 25.58 | 24.06 | 21.89 | 4.20 | 12.40 | 18.71 | 13.16 | 14.76 | 2.81 | 1.29 | 1.37 | 1.83 | 1.50 | 0.24 | |
| 5-10 | 5.18 | 7.37 | 5.73 | 6.09 | 0.93 | 7.31 | 7.21 | 6.95 | 7.16 | 0.15 | 0.71 | 1.02 | 0.82 | 0.85 | 0.13 | |
| 10-15 | 9.01 | 8.04 | 5.79 | 7.61 | 1.35 | 6.61 | 5.12 | 7.87 | 6.54 | 1.12 | 1.36 | 1.57 | 0.74 | 1.22 | 0.35 | |
| 15-20 | 8.77 | 7.37 | 9.68 | 8.61 | 0.95 | 4.02 | 5.06 | 5.69 | 4.93 | 0.69 | 2.18 | 1.46 | 1.70 | 1.78 | 0.30 | |
| 20-30 | 9.01 | 3.93 | 4.32 | 5.76 | 2.31 | 2.95 | 2.96 | 2.35 | 2.75 | 0.29 | 3.06 | 1.33 | 1.84 | 2.07 | 0.72 | |
| 30-40 | 3.72 | 2.83 | 2.59 | 3.05 | 0.48 | 2.56 | 3.10 | 2.61 | 2.76 | 0.25 | 1.45 | 0.91 | 0.99 | 1.12 | 0.24 | |

Table 101. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A4 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A4 | GPS | N 49.10167° | W 123.24248° | Date | Feb 16, 2004 | Time (PST) | 2215 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 6.78 | 5.22 | 2.09 | 4.69 | 1.95 | 6.91 | 8.09 | 9.40 | 8.13 | 1.02 | 0.98 | 0.64 | 0.22 | 0.62 | 0.31 |
| 1-2 | 13.09 | 4.53 | 3.81 | 7.14 | 4.22 | 17.97 | 10.62 | 7.50 | 12.03 | 4.39 | 0.73 | 0.43 | 0.51 | 0.55 | 0.13 |
| 2-3 | 5.44 | 3.96 | 4.72 | 4.71 | 0.61 | 12.13 | 10.57 | 6.54 | 9.75 | 2.35 | 0.45 | 0.37 | 0.72 | 0.51 | 0.15 |
| 3-4 | 3.20 | 4.26 | 4.45 | 3.97 | 0.55 | 8.49 | 10.77 | 7.93 | 9.06 | 1.23 | 0.38 | 0.40 | 0.56 | 0.44 | 0.08 |
| 4-5 | 3.43 | 3.81 | 4.11 | 3.78 | 0.28 | 8.30 | 10.46 | 8.61 | 9.12 | 0.95 | 0.41 | 0.36 | 0.48 | 0.42 | 0.05 |
| 5-10 | 1.83 | 2.01 | 0.97 | 1.60 | 0.45 | 4.57 | 5.19 | 3.46 | 4.41 | 0.71 | 0.40 | 0.39 | 0.28 | 0.36 | 0.05 |
| 10-15 | 1.04 | 2.19 | 0.94 | 1.39 | 0.57 | 2.49 | 5.31 | 3.18 | 3.66 | 1.20 | 0.42 | 0.41 | 0.30 | 0.38 | 0.06 |
| 15-20 | 1.07 | 2.01 | 0.77 | 1.28 | 0.53 | 2.86 | 5.13 | 2.76 | 3.58 | 1.09 | 0.38 | 0.39 | 0.28 | 0.35 | 0.05 |
| 20-30 | 1.31 | 1.07 | 1.04 | 1.14 | 0.12 | 2.72 | 2.78 | 3.09 | 2.86 | 0.16 | 0.48 | 0.38 | 0.34 | 0.40 | 0.06 |
| 30-40 | 1.28 | 0.43 | 0.40 | 0.70 | 0.41 | 3.03 | 1.22 | 1.41 | 1.89 | 0.81 | 0.42 | 0.35 | 0.28 | 0.35 | 0.06 |



Table 102. Sediment chlorophyll-*a* and pheophytin concentrations collected at station A5 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | A5 | GPS | N 49.09358° | W 123.26085° | Date | Feb 16, 2004 | Time (PST) | 2150 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 6.36 | 8.79 | 8.87 | 8.01 | 1.17 | 3.02 | 3.59 | 5.66 | 4.09 | 1.14 | 2.10 | 2.45 | 1.57 | 2.04 | 0.36 |
| 1-2 | 7.42 | 8.03 | 19.64 | 11.70 | 5.62 | 3.19 | 3.54 | 6.66 | 4.46 | 1.56 | 2.33 | 2.27 | 2.95 | 2.52 | 0.31 |
| 2-3 | 6.81 | 6.89 | 9.40 | 7.70 | 1.20 | 2.30 | 3.99 | 5.52 | 3.93 | 1.31 | 2.97 | 1.73 | 1.70 | 2.13 | 0.59 |
| 3-4 | 5.14 | 6.43 | 7.73 | 6.43 | 1.06 | 2.67 | 3.72 | 3.73 | 3.37 | 0.50 | 1.93 | 1.73 | 2.07 | 1.91 | 0.14 |
| 4-5 | 3.88 | 4.68 | | 2.86 | 2.05 | 2.11 | 2.93 | | 1.68 | 1.23 | 1.84 | 1.60 | | 1.72 | 0.12 |
| 5-10 | 0.65 | 1.20 | 1.00 | 0.95 | 0.23 | 1.04 | 1.47 | 1.74 | 1.41 | 0.29 | 0.63 | 0.82 | 0.57 | 0.68 | 0.11 |
| 10-15 | 0.49 | 0.88 | 0.72 | 0.70 | 0.16 | 1.02 | 1.32 | 1.01 | 1.12 | 0.14 | 0.49 | 0.66 | 0.71 | 0.62 | 0.10 |
| 15-20 | 0.44 | 0.60 | 0.59 | 0.55 | 0.07 | 0.76 | 1.24 | 1.02 | 1.01 | 0.20 | 0.58 | 0.49 | 0.58 | 0.55 | 0.05 |
| 20-30 | 0.18 | 0.23 | 0.27 | 0.23 | 0.04 | 0.55 | 0.72 | 0.66 | 0.64 | 0.07 | 0.33 | 0.32 | 0.41 | 0.36 | 0.04 |
| 30-40 | 0.19 | 0.25 | 0.27 | 0.24 | 0.03 | 0.55 | 1.64 | 0.63 | 0.94 | 0.50 | 0.34 | 0.15 | 0.42 | 0.31 | 0.11 |

Table 103. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B10 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B10 | GPS | N 49.07933° | W 123.19400° | Date | Feb 16, 2004 | Time (PST) | 2335 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 62.73 | 6.93 | 54.82 | 41.49 | 24.65 | 17.85 | 10.45 | 17.16 | 15.15 | 3.34 | 3.51 | 0.66 | 3.19 | 2.46 | 1.28 | |
| 1-2 | 47.51 | 16.81 | 48.42 | 37.58 | 14.69 | 11.86 | 13.58 | 13.09 | 12.84 | 0.73 | 4.01 | 1.24 | 3.70 | 2.98 | 1.24 | |
| 2-3 | 49.33 | 22.84 | 48.12 | 40.10 | 12.21 | 11.87 | 12.22 | 14.01 | 12.70 | 0.94 | 4.15 | 1.87 | 3.43 | 3.15 | 0.95 | |
| 3-4 | 47.20 | 22.54 | 38.37 | 36.04 | 10.20 | 13.70 | 12.53 | 9.92 | 12.05 | 1.58 | 3.45 | 1.80 | 3.87 | 3.04 | 0.89 | |
| 4-5 | 41.72 | 23.45 | 44.16 | 36.44 | 9.24 | 11.49 | 11.00 | 13.98 | 12.15 | 1.30 | 3.63 | 2.13 | 3.16 | 2.97 | 0.63 | |
| 5-10 | 13.64 | 9.20 | 17.97 | 13.60 | 3.58 | 4.01 | 6.37 | 6.33 | 5.57 | 1.10 | 3.40 | 1.44 | 2.84 | 2.56 | 0.82 | |
| 10-15 | 11.82 | 8.22 | 18.27 | 12.77 | 4.16 | 4.67 | 5.25 | 4.37 | 4.76 | 0.37 | 2.53 | 1.57 | 4.19 | 2.76 | 1.08 | |
| 15-20 | 8.77 | 10.35 | 12.55 | 10.56 | 1.55 | 3.90 | 5.21 | 4.43 | 4.51 | 0.54 | 2.25 | 1.99 | 2.83 | 2.36 | 0.35 | |
| 20-30 | 3.84 | 3.26 | 3.93 | 3.67 | 0.30 | 3.36 | 2.37 | 2.22 | 2.65 | 0.50 | 1.14 | 1.37 | 1.77 | 1.43 | 0.26 | |
| 30-40 | 2.31 | 2.07 | 1.54 | 1.98 | 0.32 | 1.87 | 1.96 | 1.36 | 1.73 | 0.26 | 1.24 | 1.06 | 1.13 | 1.14 | 0.07 | |



Table 104. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B11 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B11 | GPS | N 49.07055° | W 123.21350° | Date | Feb 16, 2004 | Time (PST) | 1955 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 10.93 | 6.01 | 5.67 | 7.54 | 2.40 | 3.92 | 2.87 | 2.21 | 3.00 | 0.70 | 2.79 | 2.10 | 2.57 | 2.48 | 0.29 | |
| 1-2 | 11.00 | 6.32 | 5.37 | 7.56 | 2.46 | 3.72 | 3.06 | 2.13 | 2.97 | 0.65 | 2.95 | 2.06 | 2.52 | 2.51 | 0.36 | |
| 2-3 | 10.20 | 6.59 | 5.48 | 7.42 | 2.02 | 3.18 | 3.30 | 2.63 | 3.03 | 0.29 | 3.21 | 2.00 | 2.08 | 2.43 | 0.55 | |
| 3-4 | 8.76 | 5.67 | 5.14 | 6.52 | 1.59 | 2.39 | 2.59 | 2.24 | 2.41 | 0.14 | 3.66 | 2.19 | 2.29 | 2.71 | 0.67 | |
| 4-5 | 6.40 | 5.82 | 5.86 | 6.03 | 0.26 | 2.29 | 2.29 | 3.44 | 2.67 | 0.54 | 2.79 | 2.55 | 1.70 | 2.35 | 0.46 | |
| 5-10 | 1.79 | 1.58 | 2.75 | 2.04 | 0.51 | 1.30 | 1.25 | 2.84 | 1.80 | 0.74 | 1.37 | 1.26 | 0.97 | 1.20 | 0.17 | |
| 10-15 | 1.76 | 1.66 | 4.27 | 2.56 | 1.21 | 1.11 | 1.21 | 1.38 | 1.23 | 0.11 | 1.59 | 1.37 | 3.09 | 2.01 | 0.76 | |
| 15-20 | 1.61 | 1.59 | 3.95 | 2.38 | 1.11 | 1.19 | 1.67 | 1.60 | 1.49 | 0.21 | 1.35 | 0.95 | 2.46 | 1.59 | 0.64 | |
| 20-30 | 0.71 | 0.73 | 0.67 | 0.70 | 0.02 | 0.99 | 1.20 | 1.21 | 1.13 | 0.10 | 0.72 | 0.61 | 0.56 | 0.63 | 0.07 | |
| 30-40 | 3.11 | 2.41 | 0.72 | 2.08 | 1.00 | 2.74 | 1.01 | 1.15 | 1.63 | 0.78 | 1.13 | 2.39 | 0.62 | 1.38 | 0.74 | |

Table 105. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B12 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B12 | GPS | N 49.06262° | W 123.22867° | Date | Feb 16, 2004 | Time (PST) | 2025 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 6.17 | 7.61 | 6.20 | 6.66 | 0.67 | 2.56 | 2.19 | 1.87 | 2.21 | 0.28 | 2.41 | 3.48 | 3.32 | 3.07 | 0.47 | |
| 1-2 | 5.60 | 7.38 | 7.27 | 6.75 | 0.82 | 1.44 | 2.42 | 2.03 | 1.96 | 0.40 | 3.89 | 3.05 | 3.58 | 3.50 | 0.34 | |
| 2-3 | 5.82 | 9.10 | 8.64 | 7.85 | 1.45 | 1.71 | 2.05 | 2.20 | 1.99 | 0.20 | 3.40 | 4.43 | 3.93 | 3.92 | 0.42 | |
| 3-4 | 4.38 | 9.63 | 7.77 | 7.26 | 2.17 | 1.12 | 1.67 | 1.81 | 1.53 | 0.30 | 3.91 | 5.76 | 4.30 | 4.65 | 0.80 | |
| 4-5 | 3.69 | 9.71 | 7.54 | 6.98 | 2.49 | 1.27 | 1.67 | 1.57 | 1.51 | 0.17 | 2.91 | 5.80 | 4.79 | 4.50 | 1.20 | |
| 5-10 | 1.04 | 3.46 | 4.82 | 3.10 | 1.56 | 0.63 | 1.10 | 0.34 | 0.69 | 0.31 | 1.66 | 3.13 | 14.03 | 6.27 | 5.52 | |
| 10-15 | 0.55 | 0.88 | 0.72 | 0.71 | 0.13 | 0.64 | 0.72 | 0.68 | 0.68 | 0.03 | 0.86 | 1.22 | 1.06 | 1.05 | 0.15 | |
| 15-20 | 0.42 | 0.43 | 0.40 | 0.42 | 0.01 | 0.51 | 0.55 | 0.52 | 0.53 | 0.02 | 0.82 | 0.77 | 0.78 | 0.79 | 0.02 | |
| 20-30 | 0.16 | 0.20 | 0.18 | 0.18 | 0.02 | 0.33 | 0.37 | 0.35 | 0.35 | 0.02 | 0.48 | 0.54 | 0.52 | 0.51 | 0.03 | |
| 30-40 | 0.17 | 0.18 | 0.19 | 0.18 | 0.01 | 0.33 | 0.46 | 0.34 | 0.38 | 0.06 | 0.52 | 0.38 | 0.54 | 0.48 | 0.07 | |

Table 106. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B13 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B13 | GPS | N 49.05370° | W 123.24553° | Date | Feb 16, 2004 | Time (PST) | 2055 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 8.91 | 5.94 | 4.30 | 6.38 | 1.91 | 1.67 | 2.14 | 1.77 | 1.86 | 0.20 | 5.35 | 2.78 | 2.43 | 3.52 | 1.30 | |
| 1-2 | 5.37 | 2.51 | 3.69 | 3.86 | 1.17 | 1.59 | 1.41 | 1.34 | 1.45 | 0.10 | 3.37 | 1.78 | 2.75 | 2.63 | 0.65 | |
| 2-3 | 2.66 | 2.04 | 3.54 | 2.75 | 0.61 | 1.18 | 1.35 | 1.04 | 1.19 | 0.13 | 2.26 | 1.51 | 3.42 | 2.40 | 0.78 | |
| 3-4 | 1.85 | 1.99 | 3.77 | 2.54 | 0.87 | 1.21 | 1.38 | 0.96 | 1.18 | 0.17 | 1.53 | 1.44 | 3.92 | 2.30 | 1.15 | |
| 4-5 | 1.15 | 1.36 | 4.42 | 2.31 | 1.49 | 1.08 | 0.93 | 1.01 | 1.00 | 0.06 | 1.06 | 1.46 | 4.39 | 2.31 | 1.48 | |
| 5-10 | 0.29 | 0.68 | 1.39 | 0.79 | 0.46 | 0.54 | 0.58 | 0.75 | 0.63 | 0.09 | 0.53 | 1.16 | 1.85 | 1.18 | 0.54 | |
| 10-15 | 0.19 | 0.42 | 0.22 | 0.28 | 0.10 | 0.48 | 0.59 | 0.56 | 0.54 | 0.05 | 0.41 | 0.71 | 0.40 | 0.50 | 0.15 | |
| 15-20 | 0.26 | 0.29 | 0.19 | 0.24 | 0.04 | 0.40 | 0.50 | 0.49 | 0.47 | 0.05 | 0.64 | 0.58 | 0.38 | 0.53 | 0.11 | |
| 20-30 | 1.01 | 0.11 | 0.10 | 0.41 | 0.43 | 0.41 | 0.36 | 0.37 | 0.38 | 0.02 | 2.45 | 0.30 | 0.26 | 1.01 | 1.02 | |
| 30-40 | 0.34 | 0.08 | 0.09 | 0.17 | 0.12 | 0.41 | 0.29 | 0.29 | 0.33 | 0.06 | 0.82 | 0.27 | 0.31 | 0.47 | 0.25 | |

Table 107. Sediment chlorophyll-*a* and pheophytin concentrations collected at station B14 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | B14 | GPS | N 49.04615° | W 123.26015° | Date | Feb 16, 2004 | Time (PST) | 2115 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 3.39 | 3.43 | 2.14 | 2.98 | 0.60 | 0.88 | 0.84 | 0.63 | 0.78 | 0.11 | 3.85 | 4.07 | 3.40 | 3.77 | 0.28 | |
| 1-2 | 3.12 | 2.88 | 2.15 | 2.72 | 0.41 | 0.95 | 0.91 | 0.71 | 0.86 | 0.10 | 3.27 | 3.18 | 3.01 | 3.15 | 0.11 | |
| 2-3 | 3.24 | 2.44 | 2.76 | 2.81 | 0.33 | 0.92 | 0.64 | 1.03 | 0.86 | 0.16 | 3.53 | 3.81 | 2.69 | 3.34 | 0.48 | |
| 3-4 | 3.81 | 3.05 | 2.41 | 3.09 | 0.57 | 1.00 | 0.84 | 0.70 | 0.85 | 0.12 | 3.81 | 3.63 | 3.43 | 3.63 | 0.15 | |
| 4-5 | 3.31 | 2.88 | 2.16 | 2.78 | 0.48 | 0.84 | 0.78 | 0.62 | 0.75 | 0.09 | 3.94 | 3.68 | 3.47 | 3.70 | 0.19 | |
| 5-10 | 1.69 | 1.74 | 1.48 | 1.63 | 0.11 | 0.55 | 0.51 | 0.42 | 0.49 | 0.05 | 3.09 | 3.41 | 3.50 | 3.33 | 0.18 | |
| 10-15 | 1.48 | 1.43 | 1.13 | 1.35 | 0.15 | 0.56 | 0.48 | 0.46 | 0.50 | 0.05 | 2.63 | 3.01 | 2.48 | 2.71 | 0.22 | |
| 15-20 | 0.69 | 0.82 | 0.36 | 0.63 | 0.19 | 0.47 | 0.47 | 0.39 | 0.44 | 0.04 | 1.48 | 1.75 | 0.92 | 1.38 | 0.35 | |
| 20-30 | 0.10 | 0.13 | 0.12 | 0.12 | 0.01 | 0.25 | 0.32 | 0.25 | 0.28 | 0.03 | 0.42 | 0.41 | 0.46 | 0.43 | 0.02 | |
| 30-40 | 0.07 | 0.09 | 0.07 | 0.08 | 0.01 | 0.18 | 0.22 | 0.18 | 0.19 | 0.02 | 0.39 | 0.42 | 0.41 | 0.40 | 0.01 | |

Table 108. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C16 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C16 | GPS | N 49.05273° | W 123.15477° | Date | Feb 17, 2004 | Time (PST) | 0005 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 54.51 | 47.51 | 53.29 | 51.77 | 3.06 | 4.54 | 1.09 | 4.53 | 3.39 | 1.63 | 12.00 | 43.58 | 11.76 | 22.44 | 14.94 | |
| 1-2 | 67.00 | 53.29 | | 60.15 | 6.85 | 21.28 | 2.07 | | 11.67 | 9.60 | 3.15 | 25.74 | | 14.44 | 11.29 | |
| 2-3 | 38.37 | 42.94 | 44.46 | 41.92 | 2.59 | 12.38 | 10.27 | 5.06 | 9.24 | 3.08 | 3.10 | 4.18 | 8.79 | 5.36 | 2.47 | |
| 3-4 | 31.37 | 25.58 | 40.81 | 32.59 | 6.28 | 3.39 | 15.02 | 8.41 | 8.94 | 4.76 | 9.25 | 1.70 | 4.86 | 5.27 | 3.10 | |
| 4-5 | 23.45 | 26.19 | 19.49 | 23.04 | 2.75 | 7.62 | 11.64 | 11.58 | 10.28 | 1.88 | 3.08 | 2.25 | 1.68 | 2.34 | 0.57 | |
| 5-10 | 6.58 | 4.87 | 6.76 | 6.07 | 0.85 | 4.13 | 4.91 | 4.13 | 4.39 | 0.37 | 1.59 | 0.99 | 1.64 | 1.41 | 0.29 | |
| 10-15 | 9.08 | 3.84 | 6.76 | 6.56 | 2.14 | 0.28 | 2.81 | 2.96 | 2.01 | 1.23 | 32.96 | 1.37 | 2.28 | 12.21 | 14.68 | |
| 15-20 | 5.36 | 6.33 | 5.97 | 5.89 | 0.40 | 1.53 | 0.31 | 3.81 | 1.88 | 1.45 | 3.50 | 20.47 | 1.57 | 8.51 | 8.49 | |
| 20-30 | 2.28 | 3.17 | 2.68 | 2.71 | 0.36 | 1.53 | 1.63 | 2.30 | 1.82 | 0.34 | 1.49 | 1.94 | 1.16 | 1.53 | 0.32 | |
| 30-40 | 2.07 | 2.65 | 3.14 | 2.62 | 0.44 | 1.59 | 1.47 | 1.08 | 1.38 | 0.22 | 1.30 | 1.80 | 2.91 | 2.00 | 0.67 | |

Table 109. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C17 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C17 | GPS | N 49.04830° | W 123.16345° | Date | Feb 17, 2004 | Time (PST) | 1955 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | | 38.07 | 22.84 | 30.45 | 7.61 | | 16.37 | 13.45 | 14.91 | 1.46 | | 2.32 | 1.70 | 2.01 | 0.31 | |
| 1-2 | 38.07 | 36.24 | 41.72 | 38.68 | 2.28 | 2.84 | 2.21 | 3.19 | 2.74 | 0.40 | 13.40 | 16.41 | 13.10 | 14.30 | 1.50 | |
| 2-3 | 35.02 | 24.06 | | 29.54 | 5.48 | 5.27 | 8.24 | | 6.75 | 1.48 | 6.64 | 2.92 | | 4.78 | 1.86 | |
| 3-4 | 35.33 | 23.24 | 33.19 | 30.59 | 5.27 | 4.66 | 0.05 | 7.71 | 4.14 | 3.15 | 7.58 | 485.99 | 4.30 | 165.96 | 226.30 | |
| 4-5 | 19.89 | 21.87 | 14.77 | 18.84 | 2.99 | 2.17 | 2.19 | 15.22 | 6.52 | 6.15 | 9.18 | 10.00 | 0.97 | 6.71 | 4.08 | |
| 5-10 | 9.75 | 8.71 | 10.29 | 9.58 | 0.66 | 0.10 | 0.58 | 1.58 | 0.75 | 0.62 | 100.00 | 15.04 | 6.52 | 40.52 | 42.20 | |
| 10-15 | 7.43 | 11.57 | 7.49 | 8.83 | 1.94 | 4.75 | 5.59 | 4.44 | 4.93 | 0.49 | 1.56 | 2.07 | 1.69 | 1.77 | 0.22 | |
| 15-20 | 7.80 | 8.77 | 5.66 | 7.41 | 1.30 | 4.32 | 3.84 | 8.73 | 5.63 | 2.20 | 1.80 | 2.28 | 0.65 | 1.58 | 0.69 | |
| 20-30 | 4.42 | 4.75 | 4.08 | 4.42 | 0.27 | 2.17 | 1.71 | 3.30 | 2.39 | 0.67 | 2.04 | 2.78 | 1.24 | 2.02 | 0.63 | |
| 30-40 | 3.11 | 4.93 | 2.19 | 3.41 | 1.14 | 2.31 | 2.14 | 2.17 | 2.21 | 0.07 | 1.35 | 2.30 | 1.01 | 1.55 | 0.55 | |



Table 110. Sediment chlorophyll-*a* and pheophytin concentrations collected at station C18 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | C18 | GPS | N 49.04122° | W 123.17783° | Date | Feb 17, 2004 | Time (PST) | 2025 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 6.66 | | 10.62 | 8.64 | 1.98 | 2.60 | | 2.91 | 2.76 | 0.15 | 2.56 | | 3.65 | 3.10 | 0.54 | |
| 1-2 | 3.96 | 10.54 | 9.17 | 7.89 | 2.84 | 2.35 | 3.49 | 2.86 | 2.90 | 0.47 | 1.69 | 3.02 | 3.21 | 2.64 | 0.68 | |
| 2-3 | 3.81 | 5.90 | 6.97 | 5.56 | 1.31 | 2.23 | 3.56 | 2.76 | 2.85 | 0.55 | 1.71 | 1.66 | 2.52 | 1.96 | 0.40 | |
| 3-4 | 3.27 | 5.22 | 5.86 | 4.78 | 1.10 | 3.84 | 3.97 | 2.90 | 3.57 | 0.48 | 0.85 | 1.31 | 2.02 | 1.39 | 0.48 | |
| 4-5 | 3.01 | 4.99 | 4.87 | 4.29 | 0.91 | 3.95 | 4.66 | 2.97 | 3.86 | 0.69 | 0.76 | 1.07 | 1.64 | 1.16 | 0.36 | |
| 5-10 | 0.91 | 1.36 | 1.42 | 1.23 | 0.23 | 1.18 | 1.27 | 1.57 | 1.34 | 0.17 | 0.77 | 1.08 | 0.91 | 0.92 | 0.13 | |
| 10-15 | 0.78 | 0.95 | 1.00 | 0.91 | 0.09 | 1.42 | 0.91 | 1.32 | 1.22 | 0.22 | 0.55 | 1.05 | 0.75 | 0.78 | 0.20 | |
| 15-20 | 0.81 | 0.79 | 0.80 | 0.80 | 0.01 | 1.62 | 1.00 | 1.18 | 1.27 | 0.26 | 0.50 | 0.79 | 0.68 | 0.66 | 0.12 | |
| 20-30 | 1.13 | 1.49 | 0.27 | 0.96 | 0.51 | 3.03 | 2.72 | 0.75 | 2.17 | 1.01 | 0.37 | 0.55 | 0.36 | 0.43 | 0.08 | |
| 30-40 | 1.92 | 1.83 | 0.43 | 1.39 | 0.68 | 1.99 | 3.22 | 1.24 | 2.15 | 0.82 | 0.97 | 0.57 | 0.35 | 0.63 | 0.26 | |

Table 111. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D20 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D20 | GPS | N 49.04205° | W 123.11592° | Date | Feb 16, 2004 | Time (PST) | 1640 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 25.58 | 44.16 | 22.84 | 30.86 | 9.47 | 10.41 | 11.51 | 9.46 | 10.46 | 0.84 | 2.46 | 3.83 | 2.42 | 2.90 | 0.66 |
| 1-2 | 22.84 | 31.98 | 24.36 | 26.39 | 4.00 | 9.15 | 11.09 | 9.47 | 9.90 | 0.85 | 2.50 | 2.88 | 2.57 | 2.65 | 0.17 |
| 2-3 | 17.75 | 25.28 | 19.73 | 20.92 | 3.18 | 9.22 | 9.48 | 10.47 | 9.72 | 0.54 | 1.93 | 2.67 | 1.88 | 2.16 | 0.36 |
| 3-4 | 16.57 | 25.28 | 16.96 | 19.60 | 4.02 | 10.07 | 9.79 | 9.89 | 9.92 | 0.12 | 1.65 | 2.58 | 1.72 | 1.98 | 0.43 |
| 4-5 | 8.34 | 23.14 | 13.37 | 14.95 | 6.15 | 5.54 | 9.15 | 10.65 | 8.45 | 2.14 | 1.50 | 2.53 | 1.25 | 1.76 | 0.55 |
| 5-10 | 5.85 | 8.28 | 6.82 | 6.98 | 1.00 | 3.50 | 4.57 | 4.80 | 4.29 | 0.57 | 1.67 | 1.81 | 1.42 | 1.63 | 0.16 |
| 10-15 | 4.20 | 5.73 | 5.12 | 5.01 | 0.63 | 3.36 | 4.30 | 4.30 | 3.99 | 0.44 | 1.25 | 1.33 | 1.19 | 1.26 | 0.06 |
| 15-20 | 3.72 | 3.84 | 3.35 | 3.63 | 0.21 | 3.61 | 4.10 | 3.85 | 3.85 | 0.20 | 1.03 | 0.94 | 0.87 | 0.95 | 0.07 |
| 20-30 | 1.83 | 1.86 | 1.49 | 1.73 | 0.17 | 2.17 | 2.26 | 2.44 | 2.29 | 0.11 | 0.84 | 0.82 | 0.61 | 0.76 | 0.10 |
| 30-40 | 2.07 | 1.43 | 1.25 | 1.58 | 0.35 | 1.96 | 2.17 | 2.04 | 2.06 | 0.09 | 1.06 | 0.66 | 0.61 | 0.78 | 0.20 |



Table 112. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D21 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D21 | GPS | N 49.03983° | W 123.11993° | Date | Feb 16, 2004 | Time (PST) | 1700 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 43.24 | 36.85 | 24.36 | 34.82 | 7.84 | 21.66 | 15.75 | 12.24 | 16.55 | 3.89 | 2.00 | 2.34 | 1.99 | 2.11 | 0.16 |
| 1-2 | 22.84 | 35.63 | 28.63 | 29.03 | 5.23 | 14.07 | 15.74 | 16.59 | 15.46 | 1.05 | 1.62 | 2.26 | 1.73 | 1.87 | 0.28 |
| 2-3 | 12.24 | 21.32 | 22.23 | 18.60 | 4.51 | 10.46 | 14.05 | 17.75 | 14.09 | 2.98 | 1.17 | 1.52 | 1.25 | 1.31 | 0.15 |
| 3-4 | 7.69 | 16.66 | 7.84 | 10.73 | 4.19 | 8.15 | 12.96 | 9.92 | 10.34 | 1.99 | 0.94 | 1.29 | 0.79 | 1.01 | 0.21 |
| 4-5 | 7.12 | 8.76 | 7.92 | 7.93 | 0.67 | 8.22 | 8.74 | 10.04 | 9.00 | 0.76 | 0.87 | 1.00 | 0.79 | 0.89 | 0.09 |
| 5-10 | 3.72 | 5.24 | 4.20 | 4.39 | 0.63 | 5.45 | 7.80 | 6.19 | 6.48 | 0.98 | 0.68 | 0.67 | 0.68 | 0.68 | 0.00 |
| 10-15 | 2.56 | 6.40 | 3.41 | 4.12 | 1.65 | 4.02 | 8.61 | 5.08 | 5.91 | 1.96 | 0.64 | 0.74 | 0.67 | 0.68 | 0.04 |
| 15-20 | 1.21 | 5.30 | 2.86 | 3.12 | 1.68 | 2.56 | 7.99 | 5.01 | 5.19 | 2.22 | 0.47 | 0.66 | 0.57 | 0.57 | 0.08 |
| 20-30 | 1.34 | 3.08 | 1.58 | 2.00 | 0.77 | 2.60 | 4.49 | 3.34 | 3.48 | 0.78 | 0.52 | 0.68 | 0.47 | 0.56 | 0.09 |
| 30-40 | 1.37 | 3.20 | 1.55 | 2.04 | 0.82 | 2.78 | 4.43 | 2.94 | 3.38 | 0.74 | 0.49 | 0.72 | 0.53 | 0.58 | 0.10 |

Table 113. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D22 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D22 | GPS | N 49.03707° | W 123.12370° | Date | Feb 17, 2004 | Time (PST) | 2320 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 55.73 | 39.89 | 36.85 | 44.16 | 8.28 | 8.86 | 30.23 | 5.29 | 14.80 | 11.01 | 6.29 | 1.32 | 6.97 | 4.86 | 2.52 |
| 1-2 | 47.51 | 71.57 | 41.11 | 53.39 | 13.11 | 25.70 | 6.87 | 6.87 | 13.14 | 8.88 | 1.85 | 10.42 | 5.98 | 6.08 | 3.50 |
| 2-3 | 48.42 | 61.82 | 31.37 | 47.20 | 12.46 | 23.25 | 4.62 | 5.54 | 11.13 | 8.57 | 2.08 | 13.39 | 5.66 | 7.04 | 4.72 |
| 3-4 | 21.93 | 59.38 | 35.63 | 38.98 | 15.47 | 26.06 | 5.52 | 2.20 | 11.26 | 10.55 | 0.84 | 10.77 | 16.18 | 9.26 | 6.35 |
| 4-5 | 29.84 | | 29.84 | 29.84 | 0.00 | 25.52 | | 1.84 | 13.68 | 11.84 | 1.17 | | 16.25 | 8.71 | 7.54 |
| 5-10 | 10.38 | 17.66 | 17.97 | 15.34 | 3.51 | 9.85 | 0.42 | 6.21 | 5.49 | 3.88 | 1.05 | 41.79 | 2.89 | 15.24 | 18.78 |
| 10-15 | 11.76 | 12.30 | 12.55 | 12.20 | 0.33 | 8.11 | 13.10 | 9.05 | 10.09 | 2.17 | 1.45 | 0.94 | 1.39 | 1.26 | 0.23 |
| 15-20 | 10.17 | 12.24 | 12.67 | 11.69 | 1.09 | 6.44 | 5.11 | 9.29 | 6.95 | 1.75 | 1.58 | 2.40 | 1.36 | 1.78 | 0.45 |
| 20-30 | 2.68 | 4.66 | 4.23 | 3.86 | 0.85 | 5.26 | 4.20 | 6.13 | 5.20 | 0.79 | 0.51 | 1.11 | 0.69 | 0.77 | 0.25 |
| 30-40 | 3.65 | 3.62 | 4.90 | 4.06 | 0.60 | 5.82 | 4.90 | 2.69 | 4.47 | 1.31 | 0.63 | 0.74 | 1.82 | 1.06 | 0.54 |

Table 114. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D23 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D23 | GPS | N 49.03352° | W 123.12878° | Date | Feb 17, 2004 | Time (PST) | 2115 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 38.37 | 37.46 | 34.72 | 36.85 | 1.55 | 15.15 | 26.21 | 14.80 | 18.72 | 5.30 | 2.53 | 1.43 | 2.35 | 2.10 | 0.48 |
| 1-2 | 22.23 | 21.32 | 50.25 | 31.27 | 13.43 | 10.99 | 27.59 | 27.88 | 22.15 | 7.89 | 2.02 | 0.77 | 1.80 | 1.53 | 0.54 |
| 2-3 | 32.28 | 9.96 | 25.28 | 22.51 | 9.32 | 3.71 | 19.97 | 23.01 | 15.56 | 8.48 | 8.71 | 0.50 | 1.10 | 3.44 | 3.74 |
| 3-4 | 5.90 | 6.24 | 9.65 | 7.27 | 1.69 | 13.75 | 13.63 | 18.74 | 15.37 | 2.38 | 0.43 | 0.46 | 0.52 | 0.47 | 0.04 |
| 4-5 | 5.25 | 4.57 | 6.43 | 5.42 | 0.77 | 12.59 | 10.70 | 14.17 | 12.49 | 1.42 | 0.42 | 0.43 | 0.45 | 0.43 | 0.02 |
| 5-10 | 4.39 | 2.56 | 2.74 | 3.23 | 0.82 | 4.90 | 5.62 | 7.59 | 6.04 | 1.14 | 0.89 | 0.45 | 0.36 | 0.57 | 0.23 |
| 10-15 | 3.35 | 3.35 | 2.62 | 3.11 | 0.34 | 8.71 | 8.65 | 8.76 | 8.70 | 0.05 | 0.38 | 0.39 | 0.30 | 0.36 | 0.04 |
| 15-20 | 4.81 | 4.93 | 3.84 | 4.53 | 0.49 | 7.80 | 13.34 | 10.68 | 10.61 | 2.26 | 0.62 | 0.37 | 0.36 | 0.45 | 0.12 |
| 20-30 | 4.84 | 3.81 | 3.38 | 4.01 | 0.61 | 8.48 | 10.07 | 8.55 | 9.03 | 0.73 | 0.57 | 0.38 | 0.40 | 0.45 | 0.09 |
| 30-40 | 2.86 | 2.65 | 2.47 | 2.66 | 0.16 | 10.09 | 9.22 | 8.79 | 9.37 | 0.54 | 0.28 | 0.29 | 0.28 | 0.28 | 0.00 |

Table 115. Sediment chlorophyll-*a* and pheophytin concentrations collected at station D24 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | D24 | GPS | N 49.02997° | W 123.13472° | Date | Feb 17, 2004 | Time (PST) | 2130 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 106.95 | 37.46 | 53.60 | 66.00 | 29.70 | 127.05 | 74.19 | 99.58 | 100.27 | 21.59 | 0.84 | 0.50 | 0.54 | 0.63 | 0.15 | |
| 1-2 | 20.40 | 61.21 | 11.27 | 30.96 | 21.71 | 66.03 | 75.66 | 50.25 | 63.98 | 10.48 | 0.31 | 0.81 | 0.22 | 0.45 | 0.26 | |
| 2-3 | 15.23 | 10.35 | 12.18 | 12.59 | 2.01 | 50.60 | 47.78 | 49.03 | 49.13 | 1.15 | 0.30 | 0.22 | 0.25 | 0.26 | 0.03 | |
| 3-4 | 12.79 | 7.31 | 5.18 | 8.43 | 3.21 | 43.50 | 36.37 | 29.58 | 36.48 | 5.68 | 0.29 | 0.20 | 0.18 | 0.22 | 0.05 | |
| 4-5 | 11.27 | 6.70 | 7.31 | 8.43 | 2.03 | 37.33 | 40.67 | 39.14 | 39.04 | 1.36 | 0.30 | 0.16 | 0.19 | 0.22 | 0.06 | |
| 5-10 | 1.95 | 2.62 | 4.08 | 2.88 | 0.89 | 12.38 | 18.05 | 28.09 | 19.51 | 6.50 | 0.16 | 0.15 | 0.15 | 0.15 | 0.01 | |
| 10-15 | 2.13 | 2.80 | 7.31 | 4.08 | 2.30 | 12.69 | 16.88 | 49.78 | 26.45 | 16.58 | 0.17 | 0.17 | 0.15 | 0.16 | 0.01 | |
| 15-20 | 2.86 | 3.84 | 4.39 | 3.70 | 0.63 | 19.41 | 21.57 | 30.80 | 23.93 | 4.94 | 0.15 | 0.18 | 0.14 | 0.16 | 0.02 | |
| 20-30 | 3.17 | 2.31 | 1.64 | 2.38 | 0.62 | 23.65 | 14.82 | 13.52 | 17.33 | 4.50 | 0.13 | 0.16 | 0.12 | 0.14 | 0.01 | |
| 30-40 | 2.13 | 1.80 | 1.46 | 1.80 | 0.27 | 13.43 | 11.77 | 9.03 | 11.41 | 1.82 | 0.16 | 0.15 | 0.16 | 0.16 | 0.00 | |



Table 116. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E25 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E25 | GPS | N 49.03658° | W 123.10715° | Date | Feb 16, 2004 | Time (PST) | 1620 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 21.74 | 20.10 | 24.97 | 22.27 | 2.02 | 7.35 | 8.51 | 7.32 | 7.73 | 0.55 | 2.96 | 2.36 | 3.41 | 2.91 | 0.43 | |
| 1-2 | 21.32 | 21.26 | 29.84 | 24.14 | 4.03 | 7.90 | 8.33 | 8.91 | 8.38 | 0.41 | 2.70 | 2.55 | 3.35 | 2.87 | 0.35 | |
| 2-3 | 23.14 | 19.52 | 22.23 | 21.63 | 1.54 | 8.54 | 10.28 | 8.83 | 9.22 | 0.76 | 2.71 | 1.90 | 2.52 | 2.38 | 0.35 | |
| 3-4 | 24.36 | 15.56 | 24.67 | 21.53 | 4.22 | 9.47 | 7.17 | 10.09 | 8.91 | 1.26 | 2.57 | 2.17 | 2.44 | 2.40 | 0.17 | |
| 4-5 | 16.81 | 19.16 | 20.77 | 18.91 | 1.63 | 6.50 | 8.25 | 8.70 | 7.82 | 0.95 | 2.58 | 2.32 | 2.39 | 2.43 | 0.11 | |
| 5-10 | 7.86 | 7.80 | 8.22 | 7.96 | 0.19 | 2.97 | 4.26 | 5.07 | 4.10 | 0.86 | 2.65 | 1.83 | 1.62 | 2.03 | 0.44 | |
| 10-15 | 10.96 | 7.98 | 5.42 | 8.12 | 2.26 | 4.60 | 4.20 | 4.24 | 4.35 | 0.18 | 2.38 | 1.90 | 1.28 | 1.85 | 0.45 | |
| 15-20 | 5.97 | 5.54 | 4.75 | 5.42 | 0.50 | 3.69 | 3.38 | 3.98 | 3.68 | 0.25 | 1.62 | 1.64 | 1.19 | 1.48 | 0.21 | |
| 20-30 | 3.26 | 2.80 | 2.44 | 2.83 | 0.34 | 2.22 | 2.33 | 2.21 | 2.25 | 0.06 | 1.47 | 1.20 | 1.10 | 1.26 | 0.16 | |
| 30-40 | 1.74 | 2.98 | 1.36 | 2.03 | 0.69 | 1.62 | 2.68 | 1.41 | 1.90 | 0.55 | 1.07 | 1.12 | 0.97 | 1.05 | 0.06 | |

Table 117. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E26 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E26 | GPS | N 49.03443° | W 123.11097° | Date | Feb 16, 2004 | Time (PST) | 1720 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | | 47.51 | 46.90 | 47.20 | 0.30 | | 4.17 | 0.78 | 2.47 | 1.69 | | 11.40 | 60.39 | 35.90 | 24.49 | |
| 1-2 | | 24.18 | | 24.18 | 0.00 | | 3.69 | | 3.69 | 0.00 | | 6.56 | | 6.56 | 0.00 | |
| 2-3 | | 26.77 | 37.76 | 32.27 | 5.50 | | 3.71 | 1.30 | 2.51 | 1.21 | | 7.21 | 29.04 | 18.13 | 10.91 | |
| 3-4 | 32.28 | 28.32 | 27.10 | 29.24 | 2.21 | 3.09 | 2.74 | 11.04 | 5.62 | 3.83 | 10.44 | 10.32 | 2.46 | 7.74 | 3.74 | |
| 4-5 | 25.58 | 22.23 | 34.41 | 27.41 | 5.14 | 5.79 | 6.37 | 4.34 | 5.50 | 0.85 | 4.42 | 3.49 | 7.92 | 5.28 | 1.91 | |
| 5-10 | 6.82 | 9.50 | 8.95 | 8.43 | 1.16 | 3.70 | 2.56 | 6.55 | 4.27 | 1.68 | 1.84 | 3.72 | 1.37 | 2.31 | 1.01 | |
| 10-15 | 5.36 | 7.00 | 7.25 | 6.54 | 0.84 | 4.48 | 4.50 | 6.59 | 5.19 | 0.99 | 1.20 | 1.56 | 1.10 | 1.28 | 0.20 | |
| 15-20 | 5.85 | 4.93 | 7.37 | 6.05 | 1.00 | 1.72 | 4.17 | 3.46 | 3.12 | 1.03 | 3.40 | 1.18 | 2.13 | 2.24 | 0.91 | |
| 20-30 | 2.62 | 2.10 | 2.65 | 2.46 | 0.25 | 2.03 | 2.24 | 2.09 | 2.12 | 0.09 | 1.29 | 0.94 | 1.27 | 1.17 | 0.16 | |
| 30-40 | 2.62 | 0.67 | 1.43 | 1.57 | 0.80 | 3.19 | 1.28 | 2.01 | 2.16 | 0.79 | 0.82 | 0.53 | 0.71 | 0.69 | 0.12 | |

Table 118. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E28 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E28 | GPS | N 49.02823° | W 123.12062° | Date | Feb 17, 2004 | Time (PST) | 2300 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 4.19 | 18.58 | 3.81 | 8.86 | 6.87 | 15.42 | 24.79 | 15.80 | 18.67 | 4.33 | 0.27 | 0.75 | 0.24 | 0.42 | 0.23 | |
| 1-2 | 16.44 | 3.65 | 4.34 | 8.15 | 5.87 | 23.23 | 29.87 | 18.19 | 23.77 | 4.78 | 0.71 | 0.12 | 0.24 | 0.36 | 0.25 | |
| 2-3 | 3.81 | 3.77 | 2.97 | 3.51 | 0.39 | 18.57 | 18.76 | 15.22 | 17.52 | 1.63 | 0.20 | 0.20 | 0.20 | 0.20 | 0.00 | |
| 3-4 | 3.16 | 3.54 | 3.01 | 3.24 | 0.22 | 17.06 | 19.07 | 18.02 | 18.05 | 0.82 | 0.19 | 0.19 | 0.17 | 0.18 | 0.01 | |
| 4-5 | 3.35 | 3.50 | 3.65 | 3.50 | 0.12 | 18.30 | 17.80 | 18.15 | 18.08 | 0.21 | 0.18 | 0.20 | 0.20 | 0.19 | 0.01 | |
| 5-10 | 4.02 | 3.11 | 3.84 | 3.65 | 0.39 | 12.90 | 13.56 | 10.31 | 12.26 | 1.40 | 0.31 | 0.23 | 0.37 | 0.30 | 0.06 | |
| 10-15 | 4.81 | 4.32 | 4.57 | 4.57 | 0.20 | 14.63 | 13.52 | 12.72 | 13.62 | 0.78 | 0.33 | 0.32 | 0.36 | 0.34 | 0.02 | |
| 15-20 | 1.16 | 4.32 | 3.05 | 2.84 | 1.30 | 12.93 | 13.45 | 11.16 | 12.52 | 0.98 | 0.09 | 0.32 | 0.27 | 0.23 | 0.10 | |
| 20-30 | 2.95 | 2.22 | 4.23 | 3.14 | 0.83 | 8.36 | 10.17 | 9.09 | 9.21 | 0.74 | 0.35 | 0.22 | 0.47 | 0.35 | 0.10 | |
| 30-40 | 1.86 | 3.50 | 5.06 | 3.47 | 1.31 | 11.37 | 7.97 | 11.00 | 10.11 | 1.52 | 0.16 | 0.44 | 0.46 | 0.35 | 0.14 | |

Table 119. Sediment chlorophyll-*a* and pheophytin concentrations collected at station E29 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | E29 | GPS | N 49.02393° | W 123.12653° | Date | Feb 17, 2004 | Time (PST) | 2115 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 21.32 | 8.53 | 10.05 | 13.30 | 5.70 | 48.81 | 35.76 | 31.78 | 38.79 | 7.27 | 0.44 | 0.24 | 0.32 | 0.33 | 0.08 |
| 1-2 | 14.31 | 6.40 | 8.53 | 9.75 | 3.35 | 37.36 | 31.13 | 32.69 | 33.73 | 2.65 | 0.38 | 0.21 | 0.26 | 0.28 | 0.07 |
| 2-3 | 8.83 | 7.00 | 7.92 | 7.92 | 0.75 | 30.23 | 33.60 | 34.84 | 32.89 | 1.95 | 0.29 | 0.21 | 0.23 | 0.24 | 0.04 |
| 3-4 | 7.31 | 7.61 | 6.09 | 7.00 | 0.66 | 27.76 | 32.06 | 27.44 | 29.08 | 2.11 | 0.26 | 0.24 | 0.22 | 0.24 | 0.02 |
| 4-5 | 4.45 | 3.43 | 3.54 | 3.81 | 0.46 | 17.42 | 17.18 | 15.84 | 16.81 | 0.70 | 0.26 | 0.20 | 0.22 | 0.23 | 0.02 |
| 5-10 | 2.25 | 2.62 | 3.53 | 2.80 | 0.54 | 10.91 | 14.79 | 15.35 | 13.68 | 1.97 | 0.21 | 0.18 | 0.23 | 0.20 | 0.02 |
| 10-15 | 2.31 | 2.86 | 5.18 | 3.45 | 1.24 | 11.16 | 15.84 | 19.74 | 15.58 | 3.51 | 0.21 | 0.18 | 0.26 | 0.22 | 0.03 |
| 15-20 | 2.68 | 2.44 | 4.39 | 3.17 | 0.87 | 10.85 | 13.13 | 14.93 | 12.97 | 1.67 | 0.25 | 0.19 | 0.29 | 0.24 | 0.04 |
| 20-30 | 1.80 | 1.22 | 1.71 | 1.57 | 0.25 | 7.86 | 6.69 | 9.18 | 7.91 | 1.02 | 0.23 | 0.18 | 0.19 | 0.20 | 0.02 |
| 30-40 | 3.08 | 8.62 | 1.55 | 4.42 | 3.04 | 6.71 | 10.22 | 8.35 | 8.43 | 1.44 | 0.46 | 0.84 | 0.19 | 0.50 | 0.27 |

Table 120. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F30 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F30 | GPS | N 49.03352° | W 123.10128° | Date | Feb 16, 2004 | Time (PST) | 1600 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std |
| 0-1 | 65.78 | 80.40 | | 73.09 | 7.31 | 10.81 | 3.57 | | 7.19 | 3.62 | 6.09 | 22.51 | | 14.30 | 8.21 |
| 1-2 | 41.42 | | 85.27 | 63.34 | 21.93 | 48.40 | | 10.70 | 29.55 | 18.85 | 0.86 | | 7.97 | 4.41 | 3.56 |
| 2-3 | 51.16 | 66.69 | 68.52 | 62.12 | 7.79 | 34.65 | 37.58 | 25.60 | 32.61 | 5.10 | 1.48 | 1.77 | 2.68 | 1.98 | 0.51 |
| 3-4 | 57.86 | 50.25 | 80.40 | 62.84 | 12.80 | 38.41 | 54.33 | 34.95 | 42.56 | 8.44 | 1.51 | 0.92 | 2.30 | 1.58 | 0.56 |
| 4-5 | 55.43 | 79.79 | 68.22 | 67.81 | 9.95 | 39.31 | 45.40 | 40.98 | 41.89 | 2.57 | 1.41 | 1.76 | 1.66 | 1.61 | 0.15 |
| 5-10 | 46.29 | 31.92 | 29.72 | 35.98 | 7.35 | 24.08 | 7.70 | 32.78 | 21.52 | 10.40 | 1.92 | 4.14 | 0.91 | 2.32 | 1.35 |
| 10-15 | 32.65 | 13.64 | 37.03 | 27.77 | 10.15 | 21.00 | 8.21 | 20.06 | 16.42 | 5.82 | 1.55 | 1.66 | 1.85 | 1.69 | 0.12 |
| 15-20 | 8.34 | 8.53 | 13.22 | 10.03 | 2.26 | 11.09 | 7.37 | 14.22 | 10.89 | 2.80 | 0.75 | 1.16 | 0.93 | 0.95 | 0.17 |
| 20-30 | 3.20 | 7.67 | 3.62 | 4.83 | 2.02 | 4.71 | 4.51 | 5.60 | 4.94 | 0.48 | 0.68 | 1.70 | 0.65 | 1.01 | 0.49 |
| 30-40 | 3.11 | 4.66 | 1.89 | 3.22 | 1.13 | 4.06 | 3.18 | 4.14 | 3.79 | 0.43 | 0.77 | 1.46 | 0.46 | 0.89 | 0.42 |

Table 121. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F31 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F31 | GPS | N 49.03058° | W 123.10497° | Date | Feb 16, 2004 | Time (PST) | 1740 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 6.43 | 56.03 | 63.95 | 42.14 | 25.45 | 11.41 | 30.09 | 31.71 | 24.40 | 9.21 | 0.56 | 1.86 | 2.02 | 1.48 | 0.65 |
| 1-2 | 4.19 | 29.84 | 32.28 | 22.10 | 12.71 | 6.85 | 25.21 | 27.70 | 19.92 | 9.30 | 0.61 | 1.18 | 1.17 | 0.99 | 0.27 |
| 2-3 | 5.75 | 18.58 | 19.49 | 14.60 | 6.27 | 8.75 | 17.10 | 21.73 | 15.86 | 5.37 | 0.66 | 1.09 | 0.90 | 0.88 | 0.18 |
| 3-4 | 7.23 | 19.19 | 19.19 | 15.20 | 5.63 | 10.26 | 21.72 | 22.95 | 18.31 | 5.72 | 0.70 | 0.88 | 0.84 | 0.81 | 0.08 |
| 4-5 | 6.66 | 19.49 | 17.97 | 14.71 | 5.72 | 8.06 | 21.73 | 19.86 | 16.55 | 6.05 | 0.83 | 0.90 | 0.90 | 0.88 | 0.04 |
| 5-10 | 11.45 | 9.08 | 8.95 | 9.83 | 1.15 | 9.10 | 11.23 | 12.02 | 10.78 | 1.24 | 1.26 | 0.81 | 0.74 | 0.94 | 0.23 |
| 10-15 | 11.27 | 8.41 | 7.92 | 9.20 | 1.48 | 9.96 | 9.31 | 11.09 | 10.12 | 0.74 | 1.13 | 0.90 | 0.71 | 0.92 | 0.17 |
| 15-20 | 8.34 | 4.02 | 5.06 | 5.81 | 1.84 | 11.83 | 6.01 | 7.99 | 8.61 | 2.42 | 0.71 | 0.67 | 0.63 | 0.67 | 0.03 |
| 20-30 | 2.80 | 1.16 | 2.19 | 2.05 | 0.68 | 5.41 | 3.39 | 3.93 | 4.24 | 0.85 | 0.52 | 0.34 | 0.56 | 0.47 | 0.09 |
| 30-40 | 3.38 | 0.51 | 1.46 | 1.78 | 1.19 | 5.29 | 1.56 | 3.31 | 3.39 | 1.53 | 0.64 | 0.33 | 0.44 | 0.47 | 0.13 |



Table 122. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F32 located on Roberts Bank, British Columbia on February 16, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F32 | GPS | N 49.02772° | W 123.10933° | Date | Feb 16, 2004 | Time (PST) | 1755 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | |
| Depth (mm) | 1 Chl *a* (µg/mL) | 2 Chl *a* (µg/mL) | 3 Chl *a* (µg/mL) | Mean | Std | 1 Pheo (µg/mL) | 2 Pheo (µg/mL) | 3 Pheo (µg/mL) | Mean | Std | 1 Chl : Pheo | 2 Chl : Pheo | 3 Chl : Pheo | Mean | Std |
| 0-1 | 49.64 | 60.91 | 42.94 | 51.16 | 7.41 | 37.10 | 44.90 | 32.73 | 38.24 | 5.04 | 1.34 | 1.36 | 1.31 | 1.34 | 0.02 |
| 1-2 | 21.32 | 34.72 | 20.71 | 25.58 | 6.46 | 25.74 | 28.34 | 21.74 | 25.27 | 2.71 | 0.83 | 1.23 | 0.95 | 1.00 | 0.17 |
| 2-3 | 19.49 | 12.49 | 15.53 | 15.84 | 2.87 | 27.26 | 18.27 | 18.61 | 21.38 | 4.16 | 0.71 | 0.68 | 0.83 | 0.74 | 0.07 |
| 3-4 | 14.31 | 12.49 | 13.40 | 13.40 | 0.75 | 18.60 | 25.04 | 22.59 | 22.07 | 2.65 | 0.77 | 0.50 | 0.59 | 0.62 | 0.11 |
| 4-5 | 10.57 | 14.62 | 14.62 | 13.27 | 1.91 | 15.67 | 28.14 | 29.06 | 24.29 | 6.11 | 0.67 | 0.52 | 0.50 | 0.57 | 0.08 |
| 5-10 | 8.89 | 6.58 | 8.04 | 7.84 | 0.96 | 12.58 | 12.62 | 16.14 | 13.78 | 1.67 | 0.71 | 0.52 | 0.50 | 0.58 | 0.09 |
| 10-15 | 6.64 | 4.93 | 8.04 | 6.54 | 1.27 | 11.14 | 8.17 | 13.37 | 10.89 | 2.13 | 0.60 | 0.60 | 0.60 | 0.60 | 0.00 |
| 15-20 | 4.20 | 4.57 | 7.67 | 5.48 | 1.56 | 9.15 | 8.84 | 12.93 | 10.31 | 1.86 | 0.46 | 0.52 | 0.59 | 0.52 | 0.05 |
| 20-30 | 2.19 | 2.65 | 3.08 | 2.64 | 0.36 | 5.07 | 5.38 | 7.47 | 5.97 | 1.07 | 0.43 | 0.49 | 0.41 | 0.45 | 0.03 |
| 30-40 | 1.10 | 1.67 | 2.38 | 1.72 | 0.52 | 3.64 | 4.60 | 6.30 | 4.85 | 1.10 | 0.30 | 0.36 | 0.38 | 0.35 | 0.03 |

Table 123. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F33 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F33 | GPS | N 49.02410° | W 123.11433° | Date | Feb 17, 2004 | Time (PST) | 2235 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 31.67 | 21.93 | 21.32 | 24.97 | 4.74 | 31.38 | 27.29 | 22.05 | 26.91 | 3.82 | 1.01 | 0.80 | 0.97 | 0.93 | 0.09 | |
| 1-2 | 19.19 | 21.01 | 10.35 | 16.85 | 4.65 | 27.57 | 17.13 | 22.86 | 22.52 | 4.27 | 0.70 | 1.23 | 0.45 | 0.79 | 0.32 | |
| 2-3 | 7.61 | 15.23 | 5.79 | 9.54 | 4.09 | 33.91 | 26.91 | 13.48 | 24.77 | 8.48 | 0.22 | 0.57 | 0.43 | 0.41 | 0.14 | |
| 3-4 | 11.27 | 4.19 | 2.44 | 5.96 | 3.82 | 22.87 | 15.54 | 35.40 | 24.60 | 8.20 | 0.49 | 0.27 | 0.07 | 0.28 | 0.17 | |
| 4-5 | 4.57 | 22.84 | 22.84 | 16.75 | 8.61 | 15.23 | 17.15 | 14.68 | 15.69 | 1.05 | 0.30 | 1.33 | 1.56 | 1.06 | 0.55 | |
| 5-10 | 4.75 | 4.39 | 7.67 | 5.60 | 1.47 | 15.73 | 10.50 | 10.97 | 12.40 | 2.36 | 0.30 | 0.42 | 0.70 | 0.47 | 0.17 | |
| 10-15 | 4.99 | 4.57 | 13.40 | 7.65 | 4.07 | 12.41 | 10.93 | 14.96 | 12.77 | 1.66 | 0.40 | 0.42 | 0.90 | 0.57 | 0.23 | |
| 15-20 | 5.54 | 3.11 | 4.99 | 4.55 | 1.04 | 18.69 | 11.78 | 12.05 | 14.17 | 3.20 | 0.30 | 0.26 | 0.41 | 0.32 | 0.06 | |
| 20-30 | 3.53 | 2.86 | 3.90 | 3.43 | 0.43 | 10.80 | 9.84 | 9.60 | 10.08 | 0.52 | 0.33 | 0.29 | 0.41 | 0.34 | 0.05 | |
| 30-40 | 5.48 | 3.17 | 4.11 | 4.25 | 0.95 | 8.67 | 11.23 | 9.95 | 9.95 | 1.05 | 0.63 | 0.28 | 0.41 | 0.44 | 0.14 | |

Table 124. Sediment chlorophyll-*a* and pheophytin concentrations collected at station F34 located on Roberts Bank, British Columbia on February 17, 2003 (Std = Standard Deviation). See Figure 2 for the location of stations.

| Station | F34 | GPS | N 49.02045° | W 123.11985° | Date | Feb 17, 2004 | Time (PST) | 2215 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Replicate | | | | | Replicate | | | | | Replicate | | | | | |
| | 1 | 2 | 3 | | | 1 | 2 | 3 | | | 1 | 2 | 3 | | | |
| Depth | Chl *a* | Chl *a* | Chl *a* | | | Pheo | Pheo | Pheo | | | Chl : Pheo | Chl : Pheo | Chl : Pheo | | | |
| (mm) | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | (µg/mL) | (µg/mL) | (µg/mL) | Mean | Std | | | | Mean | Std | |
| 0-1 | 28.63 | 4.04 | 4.11 | 12.26 | 11.57 | 50.42 | 16.27 | 13.65 | 26.78 | 16.75 | 0.57 | 0.25 | 0.30 | 0.37 | 0.14 | |
| 1-2 | 8.83 | 3.16 | 5.18 | 5.72 | 2.35 | 27.77 | 15.64 | 28.96 | 24.13 | 6.02 | 0.32 | 0.20 | 0.18 | 0.23 | 0.06 | |
| 2-3 | 4.19 | 3.46 | 3.08 | 3.58 | 0.46 | 16.07 | 17.95 | 16.72 | 16.91 | 0.78 | 0.26 | 0.19 | 0.18 | 0.21 | 0.03 | |
| 3-4 | 7.61 | 3.16 | 2.82 | 4.53 | 2.18 | 23.14 | 16.49 | 16.45 | 18.69 | 3.15 | 0.33 | 0.19 | 0.17 | 0.23 | 0.07 | |
| 4-5 | 12.49 | 3.65 | 2.70 | 6.28 | 4.40 | 33.34 | 18.61 | 15.64 | 22.53 | 7.74 | 0.37 | 0.20 | 0.17 | 0.25 | 0.09 | |
| 5-10 | 6.76 | 1.83 | 2.01 | 3.53 | 2.28 | 17.97 | 12.81 | 11.09 | 13.96 | 2.92 | 0.38 | 0.14 | 0.18 | 0.23 | 0.10 | |
| 10-15 | 3.11 | 2.31 | 2.68 | 2.70 | 0.32 | 13.07 | 11.22 | 14.18 | 12.82 | 1.22 | 0.24 | 0.21 | 0.19 | 0.21 | 0.02 | |
| 15-20 | 3.11 | 4.57 | 3.35 | 3.67 | 0.64 | 13.75 | 16.22 | 17.69 | 15.89 | 1.63 | 0.23 | 0.28 | 0.19 | 0.23 | 0.04 | |
| 20-30 | 2.16 | 2.59 | 2.62 | 2.46 | 0.21 | 7.86 | 11.62 | 11.28 | 10.26 | 1.70 | 0.27 | 0.22 | 0.23 | 0.24 | 0.02 | |
| 30-40 | 2.89 | 1.89 | 2.80 | 2.53 | 0.45 | 12.02 | 11.40 | 12.88 | 12.10 | 0.61 | 0.24 | 0.17 | 0.22 | 0.21 | 0.03 | |